

This is Document “Schedule 2 Part 1” referred to in this Contract

SCHEDULE 2 PART 1

METHOD OF MEASUREMENT

CONTENTS

	Page No
Chapter I	3
Definitions	3
Chapter II	5
General Principles	5
Chapter III	7
Preambles to Schedule of Rates and Prices	7
Series 100 : Preliminaries	27
Temporary Accommodation	27
Vehicles for the Overseeing Organisation	27
Communication System for the Overseeing Organisation	27
Operatives for the Overseeing Organisation	27
Information Boards	27
Traffic Safety and Management	27
Temporary Diversion of Traffic	28
Recovery Vehicles	28
Recovery Vehicle Response	29
Series 200 : Site Clearance	31
Site Clearance	31
Take Up or Down and Set Aside for Re-use or Remove to Store on or off the Unit or to a Licenced Disposal Facility.	32
Remove from Store and Take to Licenced Disposal Facility	36
Remove from Store and Take to Tip Off Unit	36
Series 300 : Fencing and Environmental Barriers	37
Fencing, Gates and Stiles	37
Remove from Store or from where previously Set Aside and Re-Erect Fencing	39

Remove from Store or from where previously Set Aside and Re-erect Gates and Stiles	39
Repairs to Existing Fencing – Renew Components	40
Repairs to Existing Fencing - Re-Erect Existing Components	42
Series 400: Road Restraint Systems (Vehicle and Pedestrian)	45
Connections to Existing Systems	45
Pedestrian Parapets and Pedestrian Guardrails	45
Remove from Store or from where previously Set Aside and Re-erect Beams, Vehicle Parapets, Pedestrian Parapets, Pedestrian Guardrails and Pedestrian Handrails.	49
Standard Concrete Foundations to Posts, Sleeved Concrete Footings to Posts, Socketed Concrete Foundations to Posts and Additional Concrete Foundations to Posts	52
Repairs to Safety Barriers, Vehicle Parapets, Pedestrian Parapets and Pedestrian Guardrails and Handrails	53
Painting of Safety Barriers, Pedestrian Guardrail and Handrail Units	54
Excavation in Hard Material	55
Extra Over Excavation for Excavation in Hard Material	56
Series 500 : Drainage and Service Ducts	57
Drains and Service Ducts (Excluding Filter Drains, Narrow Filter Drains and Fin Drains)	57
Filter Drains	57
Replacement, Raising or Lowering of Covers and Gratings on Existing Chambers and Gullies	58
Remove from Store or from where previously Set Aside and Reinstall Chamber Covers and Frames and Gully Gratings and Frames	59
Drain Survey	59
Setting up Closed Circuit Television Equipment for Drain Survey	61
Drain Survey by Closed Circuit Television Camera	62
Reports on Drain Surveys	63
Rodding Eyes	64
Protection to Existing Sewer, Drain or Service Duct	66
Series 600 : Earthworks	69
Earthworks	69
Disposal of Material	69
Disused Sewers, Drains, Cables, Ducts, Pipelines and the Like Occurring at Formation or Sub-formation Level; Disused Basements, Cellars and the Like and Gullies	69
Clearing of Existing Ditches	69

Trial Pits	70
Siding out of Carriageways, Footways and Paved Areas	70
Series 700 : Pavements	73
Sub - base	73
Pavement	73
Surface Treatment	73
Reinstatement of Paved Areas	73
Repairs to Carriageway Defects	74
Repairs of Carriageway Defects – Category 1 Defects	74
Saw Cuts	76
Overband Sealing	76
Pavement Reinforcement	77
Series 1100 : Kerbs, Footways and Paved Areas	79
Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerb Blocks, and Linear Drainage Channel Systems	79
Replace Kerbs, Channels, Edgings and Combined Drainage and Kerb Blocks, and Linear Drainage Channel Systems	80
Additional Concrete for Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems	82
Remove from Store or from where previously Set Side and Relay Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems	83
Footways and Paved Areas	84
Footways, Paved Areas and Cycle Facilities	84
Remove from Store or from where previously Set Aside and Relay Paving Flags and Blocks	85
Steps	86
Access Steps	86
Cold Milling (Planing)	87
Reinstatement of Paved Areas	87
Patching	87
Excavation in Hard Material	88
Series 1200 : Traffic Signs and Road Markings	91
Traffic Signs Faces	91
Traffic Sign Posts	92
Traffic Sign Bases	93
Sign Lighting Units	94

Sign Bracket Arms	96
Remove from Store or from where previously Set Aside and Re-erect Traffic Sign Faces, Traffic Sign Posts, Sign Lighting Units, Sign Bracket Arms	96
Road Markings	99
Road Studs	100
Remove from Store or from where previously Set Aside and Re-install Reflecting Road Studs	100
Marker Posts	101
Permanent Bollards	101
Remove from Store or from where previously Set Aside and Re-erect Bollards	103
Numbering of Traffic Signs	104
Excavation in Hard Material	104
Series 1300 : Road Lighting Columns and Brackets, CCTV Masts and Cantilever Masts	107
Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts	107
Remove from Store or from where previously Set Aside and Re-erect Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts	108
Luminaires, Renew Luminaires	110
Numbering of Road Lighting Columns	112
Excavation in Hard Material	112
Series 1400 : Electrical Work for Road Lighting and Traffic Signs	115
Trench for Cable or Duct	115
Cable Joints, Terminations and Renew Terminations	115
Feeder Pillars	117
Earth Electrodes	117
Disconnection of Cables	118
Equipotential Bonding	119
Temporary Overhead Feed to Road Lighting Units	120
Excavation in Hard Material	121
Remove from Store or from where previously Set Aside and Re-Erect Feeder Pillars	122
Series 1700 : Structural Concrete	125
Structural Concrete Repairs	125
Formwork for Concrete Repairs	127
Steel Reinforcement for Concrete Repairs	127

Backfilling to Structures with Foamed Concrete	127
Series 2000 : Waterproofing for Structures	129
Surface Impregnation of Concrete	129
Additional Preparation to Bridge Deck	130
Repair to Existing Waterproofing	130
Series 2300 : Bridge Expansion Joints and Sealing of Gaps	133
Replacement Bridge Deck Expansion Joints	133
Renew Joint Sealants	136
Series 2400 : Brickwork, Blockwork and Stonework	137
Remove from Store or from where previously Set Aside and Relay Brickwork, Blockwork or Stonework	138
Replacement of Precast Concrete Coping	141
Repointing	142
Series 2600 : Miscellaneous	145
Anti-Graffiti Coatings	145
Series 2800 : Winter Service Operations	147
Snow Poles	147
Series 3000 : Landscaping and Ecology	149
Ground Preparation and Cultivation	149
Planting	149
Weed Control	150
Maintenance of Established Trees and Shrubs	150
Stump Grinding, Stump Grubbing and Stump Killing Herbicide	151
Control of Rabbits and Deer	152
Watering	153
Tree Tubes Guards and Ties	154
Series 3200 : Emergency Response	155
Emergency Response	155
Series 3300 : Site Investigations	159
Rotary Coring of Existing Carriageways	159
Rotary Coring of Existing Structures	160
Inspection Patches on Bridge Structures	161
Structural Investigations	162
Falling Weight Deflectometer Tests	163
Dynamic Cone Penetrometer Tests	164
Trial Holes	165

Series 5000 : Maintenance Painting of Steelwork	167
Surface Preparation and Protective System	167
Series 6100: Management Inspection and Cyclic Maintenance Operations	169
Part I - Management Inspection and Cyclic Maintenance	169
Communication and Miscellaneous Equipment	177
Part II - Management Inspection and Cyclic Maintenance Operations	183
Road Restraint Systems	183
Drainage	184
Cleaning of Street Furniture	185
Grass Cutting	186
Hedge Trimming	188
Road Cleaning and Clearance	189
Litter Clearance	191
Series 6200: Professional Services Rates and Prices	193
Professional Services Rates and Prices	193
Series 6300: Payment for the Procurement and Supervision of Works Contracts	195
Payment for the Procurement and Supervision of Works Contracts	195
Series 6400: Adjustment to Schedule of Rates and Prices	199
Time Band Adjustment	199
Adjustment for Works Within and Below Non-Tidal Open Water or Tidal Water	200
Series 6500: Time Work Schedule	203
Time Work Schedule	203
Labour	203
Plant	206
Materials	208
Supplementary Services	209
Series 6600: Payment of Accounts	213
Payment of Accounts	213
Series 6700: Changes in Scope of Operations	215
Changes in the Extent of the Unit Impacting on Monthly Sum Items in Series 6100	215
Series 7000: Lump Sum Quotations	217
Lump Sum Quotation	217

METHOD OF MEASUREMENT

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Chapter I

Definitions

Definitions

Definitions given in Volume 4 Section 1 Chapter I of the Manual of Contract Documents for Highway Works hereby apply unless amended otherwise and as stated below.

Delete sub paragraph 1(c) and insert the following sub paragraph 1(c):

1(c) "Schedule of Rates and Prices" means a list of items giving brief identifying descriptions

Add the following sub-paragraph

- (l) Percentage Adjustment is the percentage added or deducted from the rates and prices to which it is applied to include but not limited to:
- value of cost of new components for repairs in sub-section 09 of Series 400
 - value of Works Contracts in Series 6300
 - rates and prices in Series 6400
 - plant rates, cost of materials and invoiced costs in Series 6500
 - invoiced costs in Series 6600

Chapter II

General Principles

General Principles

General Principles given in Volume 4 Section 1 Chapter II of the Manual of Contract Documents for Highway Works hereby apply unless amended otherwise and as stated below.

Delete paragraph 1 and insert the following paragraph 1;

- | | | |
|-----------------------|---|--|
| Method of Measurement | 1 | <p>(a) The Method of Measurement is based on the March 1998 version of Section 1 of Volume 4 of the Manual of Contract Documents for Highway Works as amended and supplemented in this Method of Measurement;</p> <p>(b) The Method of Measurement is based on the March 1998 version of the Specification for Highway Works and the Highway Construction Details published as Volume 1 and Volume 3 of the Manual of Contract Documents for Highway Works as amended and supplemented in this Contract.</p> |
| Bills of Quantities | 2 | <p>(a) Delete last sentence of paragraph 2(a) in its entirety.</p> |

Delete whole of page 1 of Volume 4 Section 1 Chapter III and replace with this page 7 of this
Part 2 of this Schedule 2

Chapter III

Preambles to Schedule of Rates and Prices

Delete preambles set down in Volume 4 Section 1 Chapter III of the Manual of Contract Documents for Highway Works and replace with the following:

Preambles To Schedule Of Rates And Prices.

General Directions

- 1 The Schedule of Rates and Prices has been prepared generally in accordance with the principles used in the Method of Measurement for Highway Works published by Her Majesty's Stationery Office in March 1998 as Section 1 of Volume 4 of the Manual of Contract Documents for Highway Works as amended by this Part 1 of this Schedule 2 and these amended Preambles 1 to 31 inclusive of this Part 1 of this Schedule 2.

The relevant publication date of each page of the Method of Measurement for Highways Works is given in the Schedule of Pages and Relevant Publication Dates.

The nature of the Operations is such that the detail and extent of Orders shall not be available at time of Tender.

- 2 In Part 2 of this Schedule 2 Schedule of Rates and Prices the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings "Item coverage" in Chapter IV of the Method of Measurement for Highway Works, these Preambles and the amendments to the Method of Measurement immediately following these Preambles.

Notwithstanding other provisions of this Contract the marginal headings in this Schedule 2 Parts 1 and 2 shall be included in the obligations covered by the relevant paragraphs parts and Schedules referred to in the item coverage.

The nature of the work and, where relevant, its frequency of execution is to be ascertained or assessed by reference to the Scottish Ministers' Requirements and the Conditions of Contract.

Duplication in respect of item coverage elements included in a specific series and these preambles shall be for emphasis only and to draw tenderers attention to their obligations.

The absence of such item coverage elements in other series shall not be deemed to be an omission or inconsistency.

The rates and prices entered in the Schedule of Rates and Prices shall be deemed to be the full inclusive value of the work covered by the several items including but not limited to the following, unless expressly stated otherwise:

- (i) Labour and costs in connection therewith;
- (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to anywhere within the Unit; taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith;
- (iii) Plant and costs in connection therewith;
- (iv) Fixing, erecting and installing or placing of materials and goods in position;
- (v) Temporary works;
- (vi) Access as described in paragraph 26 of these Preambles;
- (vii) The effect on the phasing of the Operations or any element of the Operations to the extent set forth or reasonably implied in this Contract;
- (viii) General obligations, liabilities and risks involved in the execution of the Operations set forth or reasonably implied in the documents on which the Tender is based including but not limited to such obligations and the like referred to in Schedule 1;
- (ix) Establishment charges including but not limited to temporary accommodation at individual Site Operations and all accommodation, depots, stores and the like required by the Operating Company for the duration of this Contract;
- (x) Wastage and its disposal including all costs, charges and taxes incurred whatsoever;
- (xi) Supplying results of tests carried out by the Operating Company and providing test certificates, all as described in paragraph 22 of these preambles;
- (xii) Traffic safety and traffic management measures as required by the Scottish Ministers' Requirements including maintenance all as described in paragraph 21 of the Preambles;
- (xiii) All travelling connected with Operations;
- (xiv) Complying with the Quality Management System including the Quality Plan requirements of this Contract and providing certificates of conformity;

- (xv) Not used;
- (xvi) Making arrangements with the owners, tenants and occupiers concerned for the use of any private land for Plant, stores, working space, borrow pits or spoil dumps required;
- (xvii) Communication system;
- (xviii) Insurance provision;
- (xix) All obligations activities duties and responsibilities of the Operating Company set out in this Contract commencing at the end of the Final Annual Period until such time as such obligations activities duties and responsibilities have been executed by the Operating Company;
- (xx) Overheads and profit;
- (xxi) Complying with Parts 1 and 3 of Schedule 3;
- (xxii) Vehicles, communication system and operatives for the Director;
- (xxiii) Consultation and approvals consents and the like from the appropriate bodies to obtain access and method of working for rebuilding including but not limited to Historic Scotland to enable timescales for rebuilding to be achieved;
- (xxiv) Site Operations information signs and/or boards on all Sites in accordance with Clause 110SR of Part 1 of Schedule 9;
- (xxv) temporary diversion of traffic in accordance with Clause 118 of Schedule 9.

Measurement

- 3 The final measurement of quantity against each item on an Order shall be computed from the dimensions stated in the Order(s) or physically measured in the absence of such dimensions unless stated otherwise in the Method of Measurement.
- The final measurement of quantity against each item in an Order shall be computed net to the nearest whole number, except for measurement of tonnage hectares and kilometres in which cases the quantities shall be to three decimal places.

The Schedule of Rates and Prices contain a number of adjustment items.

The purpose of the adjustment item is to vary the content of the original item to which the adjustment applies.

Separate item coverage has not been included in the amendments to the method of measurement for adjustment items.

Where adjustment items have been included in the Schedule of Rates and Prices they shall be deemed to include the same features and item coverage of the original Schedule of Rates and Prices item to which they apply.

Pricing of Items	4	<p>Each individual item shall have a rate or price entered against it.</p> <p>Rates and prices shall be expressed to two decimal places.</p>
Schedule of Rates and Prices	5	<p>Where provision has been made in the Schedule of Rates and Prices for items of work to be measured and paid for in various quantity bands the measurement and payment of such items for each individual Scheme shall be made using only the rate entered under the appropriate quantity band.</p> <p>The quantity band used shall be that obtained by the summation of the final quantities of like work within a Scheme unless a Scheme covers more than one Site and the distance between discreet Sites within the Scheme exceeds the minimum distances between traffic management measures as detailed in Table F of Chapter 8 of the Traffic Signs Manual in which case the quantity band used shall be that obtained by the summation of the quantities of like work at each discreet Site within the Scheme.</p>
Alternative Specified Materials, Designs and Options Within Types of Pavement	6	<p>Where a choice of alternatives is permitted in this Contract, the item description and the rates and prices inserted shall be deemed to include any of the permitted alternative materials or designs the Operating Company may elect to use.</p> <p>In all cases the rates and prices inserted in all Series of the Schedule of Rates and Prices shall be deemed to include for any adjustments of work content, rates, costs, programming, method of working and the like occasioned by the choice of alternatives elected to be used or constructed by the Operating Company.</p>

Privately and Publicly Owned Services or Supplies	7	The Operating Company shall include in the rates and prices for locating, marking and taking measures for the support and full protection of pipes, cables and other apparatus during the progress of Operations, obtaining the written consent and the like of the appropriate authority to interrupt the service or supply and for keeping the Scottish Ministers informed in writing of all arrangements it makes with owners of privately owned services or supplies, Statutory Undertakers and Public Authorities and the like as appropriate.
Labours	8	<p>Labours in connection with Nominated Sub-contractors shall include:</p> <ul style="list-style-type: none"> (i) in the case of Operations - for affording but not limited to the use of existing working space, access, temporary roads, erected scaffolding, working shelters, staging, ladders, hoists, storage, latrines, messing, welfare and all other facilities but not limited to existing on the Unit and the provision of protection, water, electricity for lighting and clearing away rubbish, debris and waste and the like arising from the Operations; (ii) in the case of goods, materials or service supplied – for taking delivery, unloading, storing, protecting and returning crates, cartons and packing materials.
Location, Frequency and timescales of Schedule items	9	<p>The Operating Company shall allow in the rates and prices for carrying out the Operations at any location within or associated with the Unit, and shall also allow for the items in the Schedule of Rates and Prices being used only once, a number of times or not at all during this Contract.</p> <p>The Operating Company shall allow in the rates and prices for undertaking any Operations within the timescales prescribed in this Contract and/or any Order.</p> <p>The only repairs to Category 1 Defects that are separately measured are for repair to carriageway Category 1 Defects included in Series 700 Pavement.</p> <p>All other repairs to Category 1 Defects shall be measured from the appropriate items in the Schedule of Rates and Prices and the Operating Company shall allow in such rates and prices for undertaking the repair in the timescales referred to in Part 1 of Schedule 7.</p>

Roadworks Overall Requirements	10	The Operating Company shall allow in the rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, cold weather working, use of surfaces by traffic and constructional Plant and general requirements for sub-bases and road bases.
Work Within and Below Non-Tidal Open Water or Tidal Water	11	<p>The Operating Company shall allow in the rates and prices for taking measures to execute all Operations above non tidal open water and above Mean High Water Springs.</p> <p>All Operations executed within and below non tidal open water or between Mean High Water Springs and Mean Low Water Springs or below Mean Low Water Springs are subject to adjustment in accordance with Series 6400.</p> <p>The datum for measurement of Operations executed within and below non tidal open water shall be stated in the Order.</p> <p>The Mean High Water Springs and Mean Low Water Springs are equivalent levels relative to Chart Datum determined by the United Kingdom Hydrographic Office</p>
Dealing with Flow	12	The Operating Company shall allow in the rates and prices for taking measures to deal with the existing flow of water, sewage and the like.
Taxes Levies Contributions Premiums Refunds or Landfill Tax	13	The Operating Company shall allow in the rates and prices for all matters as described in Clause 22 of the Conditions of Contract.
Site Limitations and Constraints	14	The Operating Company shall allow in the rates and prices for complying with any limitations and constraints on the use of or connected with the Unit.
Hard Material	15	<p>For the purposes of this Contract the following are designated as Hard Material in accordance with Chapter 1 of the Method of Measurement for highway Works Definitions, paragraph 1(h):</p> <ul style="list-style-type: none"> (i) material which requires the use of blasting, breakers or splitters for the removal but excluding individual masses less than 0.20 cubic metres; (ii) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.

Equivalent Products and Materials	16	<p>Where the Operating Company offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Operations by the Scottish Ministers, then the Schedule of Rates and Prices be deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Operations, including but not limited to Design, provision of data and drawings, certificates, awaiting approvals and the like, re-submissions and modifications and amendments to the Operations.</p> <p>Unless specifically stated to the contrary in this Contract the measurement of the Operations affected by the incorporation of the equivalent products and materials shall be based on this Contract and not on the Operations as amended and completed to incorporate the equivalent products and materials.</p>
Supervision of Operations	17	<p>The Operating Company shall allow in the rates and prices for the supervision by the Operating Company of Operations.</p>
Repair Work and Alterations	18	<p>Various elements of the Schedule of Rates and Prices identify works of repair and or alteration.</p> <p>Notwithstanding such separately identified items the Operating Company shall allow in the rates and prices for executing any of the other items in the Schedule of Rates and Prices as repairs and or alterations to existing.</p>
Time Bands and Percentage Adjustments	19	<p>The Operating Company shall allow in the rates and prices in the Schedule of Rates and Prices for executing Operations during normal working hours hereby defined as 0700 to 1900 hours Mondays to Fridays inclusive (time band reference 1), except for Series 3200, 6100 to 6700 (inclusive) and 7000 which are all deemed to be undertaken at any time and shall not be subject to any time band adjustments.</p> <p>Percentage adjustments shall be made to the rates and prices in the Schedules of Rates and Prices in respect of Operations executed outwith normal working hours when the hours of working are subject to restrictions as referred to in Appendix 1/17 of Part 1 of Schedule 9 or are referred to in an Order</p> <p>Percentage adjustments do not apply to Operations undertaken in time band reference 1.</p> <p>Operations that are executed within normal working hours but subject to restrictions as referred to in Appendix 1/17 of Part 1 of Schedule 9 shall be deemed to be in time band reference 1 and therefore are not subject to adjustment.</p>

Other Work on the Unit, the Police and Emergency Services	20	<p>The Operating Company shall allow in the rates and prices for the presence from time to time of authorised contractors and bodies and other third parties executing work on the Unit.</p> <p>Typical examples of work undertaken is as listed in Appendix 1/17 of Part 1 of Schedule 9.</p> <p>The Police and other emergency services shall require access through the Unit at all times and the Operating Company shall allow in the rates and prices for complying with this requirement.</p>
Traffic Safety and Traffic Management	21	<p>The Operating Company shall allow in all the rates and prices for all traffic safety and traffic management to undertake the Operations, including but not limited to Series 2800, 3200, 6100, 6200, 6400, 6500, 6600 and 6700.</p> <p>The rates and prices shall include but not be limited to the Design, provision, maintenance and removal of any costs related to traffic safety and traffic management measures referred to in Appendix 1/17 of the Specification and in accordance with the requirements of Clause 117 of Part 1 of Schedule 9 of this Contract and the following</p> <ul style="list-style-type: none"> (i) phasing the Operations in a manner acceptable to the Director the National Network Control Centre and the Police for the continuing flow of traffic including but not limited to maintaining access to properties; (ii) complying with the current and future requirements of the 'Traffic Signs Regulations and General Directions' and with the recommendations contained in Chapter 8 of the Traffic Signs Manual and any amendment thereto or where the circumstances of any particular case are not covered, including but not limited to any additional traffic safety and traffic management measures required by the Police, submitting proposals for dealing with such situations including but not limited to risk assessments and the like to the Director; (iii) enhancement of the requirements of Chapter 8 of the Traffic Signs Manual as deemed necessary by the operating company to satisfy specific Site safety risk assessments; (iv) continuing traffic safety and management outside the boundaries of the Unit when associated with operations on the Unit and including all necessary liaison with relevant authorities and other third parties;

		(v)	requirements to deal with reduced Lane widths due to any reason including but not limited to convoy working;
		(vi)	alterations to traffic management measures or programmes to take account of events on or outwith the Unit that prevent or constrain the use of traffic management or planned Site Operations or Works excluding Emergency Operations.
Sampling and Testing	22		The Operating Company shall allow in the rates and prices for sampling and testing as required in the Specification including but not limited to supplying copies of results to the Director and the Performance Audit Group when required by them.
Payments to Statutory Undertakers	23		<p>The Operating Company may be required to place orders with Statutory Undertakers and the like for renewal, maintenance or repair of services on the Unit and the payment for such orders may well be required in advance of the work being undertaken.</p> <p>An Order shall be issued on each occasion but the Operating Company shall allow in the Percentage Adjustment for all additional cost associated with the payments for such work and the fact that invoices for the Statutory Undertakers may not be immediately available.</p> <p>Payment of Statutory Undertakers accounts is included in Series 6600 Payment of Accounts of Part 2 of this Schedule 2.</p>
Format of the Schedule of Rates and Prices	24		<p>An example of the page format of the Schedule of Rates and Prices is shown in Appendix A.</p> <p>Generally but not in all instances separate items are provided for carrying out the work on motorways, dual carriageways or single carriageways or other Trunk Roads not classified as motorways or dual carriageways, except for Series 3200, 6100 Part 1 and 6200 to 6600 inclusive and Series 7000.</p>
Fixed Price Monthly Sum Items	25		Fixed price monthly sum items in Series 6100 shall apply each month during each Annual Period.
Access	26		<p>The Operating Company shall allow in all the rates and prices for all access to undertake the Operations including but not limited to scaffolding and Plant, including but not limited to Series 2800, 3200, 6100, 6200, 6400, 6500, 6600 and 6700.</p> <p>The rates and prices shall include but not limited to Design, provision, maintenance and removal of access measures.</p>

Value for Money and Sufficiency of Rates	27	<p>(i) For the purposes of this Contract the rates and prices referred to in Clause 7.2.11 of Schedule 1 are listed in Appendix B1 to this Preamble.</p> <p>When considered in respect of a specific Order these rates and prices in Appendix B1 to this Preamble may not give value for money;</p> <p>(ii) For the purposes of this Contract the rates and prices referred to in Clause 7.2.12 of Schedule 1 as being deemed to be sufficient to carry out the full scope of any obligation of the Operating Company specified in and/or reasonably to be inferred from this Contract in connection with any such rate are listed in Appendix B2 to this Preamble.</p>
Disposal	28	The Operating Company is to allow in all rates and prices for disposal to a licensed disposal facility which may include a licensed recycling facility.
Damage to Crown Property Costing less than or equal to £10,000 to Repair or Replace and Clear	29	<p>Operations including but not limited to repair replacement or clearing required as a result of damage to Crown Property where the cost is less than or equal to £10,000 as defined in paragraph 3.2.1 of Part 5 of Schedule 4 shall not be measured.</p> <p>All costs associated with the repair replacement or clearing of damage and the like to Crown Property where the cost of repair is less than or equal to £10,000 are covered by Item Number 02-007 in Series 6100.</p>
Contract Price Fluctuations	30	The Operating Company shall allow in the rates and prices for all costs whatsoever in respect of Contract Price Fluctuation that the Operating Company considers to be not adequately covered by Clause 10.6 of Schedule 1.
Amendment to the Method of Measurement	31	<p>For the purpose of this Contract the Method of Measurement for Highway Works is amended</p> <p>(i) by replacing the words "Bills of Quantities" wherever they occur with the words "Schedule of Rates and Prices";</p> <p>(ii) by replacing the word "Contractor" wherever it occurs with the words "Operating Company";</p> <p>(iii) by replacing the word "Overseeing Organisation" wherever it occurs with the word "Director", unless the context suggests otherwise in which case it shall be replaced by Operating Company;</p>

- (iv) by construing any reference to “rates”, “prices”, “Rates”, “Prices”, “rates and prices” or “Rates and Prices” to mean a reference to rates and prices contained in the Schedule of Rates and Prices;
- (v) by replacing the full stop to the last item in item coverages with a semi-colon in every case where additional items have been added; and
- (vi) in accordance with the pages immediately following.

In addition to the standard Series the following additional Series are included:

2800	Winter Service Operations
3200	Emergency Response
3300	Site Investigations
6100	Management Inspection and Cyclic Maintenance Operations
6200	Professional Services Rates and Prices
6300	Payment for the Procurement and Supervision of Works Contracts
6400	Adjustment to Schedule of Rates and Prices
6500	Time Work Schedule
6600	Payment of Accounts
6700	Changes in Scope of Operations
7000	Lump Sum Quotations

Appendix A

Schedule of Rates and Prices

Page Format

		Series 700-Pavements		M	D	S
Item No		Item Description	Unit	Rate £	Rate £	Rate £
01		Sub-base				
01	001	Granular Type 1 sub-base (less than 10m ³)	m ³			
01	002	Granular Type 1 sub-base (10m ³ to 50m ³)	m ³			
01	003	Granular Type 1 sub-base (greater than 50m ³)	m ³			
01	004	Granular Type 2 sub-base (less than 10m ³)	m ³			
01	005	Granular Type 2 sub-base (10m ³ to 50m ³)	m ³			
01	006	Granular Type 2 sub-base (greater than 50m ³)	m ³			
02	001	Type B1 base 100mm thick (less than 10m ²)	m ²			
02	002	Type B1 base 100mm thick (10m ² to 25m ²)	m ²			
02	003	Type B1 base 100mm thick (26m ² to 50m ²)	m ²			
02	004	Type B1 base 100mm thick (51m ² to 250m ²)	m ²			
02	005	Type B1 base 100mm thick (251m ² to 500m ²)	m ²			
02	006	Type B1 base 100mm thick (501m ² to 2000m ²)	m ²			
02	007	Type B1 base 100mm thick (greater than 2000m ²)	m ²			

Appendix B1

Listing of Value for Money

Pursuant to paragraph 27(i) of the Preamble to the Schedule of Rates and Prices when considered in respect of a specific Order the following rates and prices may not give value for money

Appendix B1 is contained in Annex A of Part 2 of Schedule 2 in Volume 2A of this Contract.

Appendix B2

Listing of Sufficient Rates

Pursuant to paragraph 27 (ii) of the Preamble to the Schedule of Rates and Prices the following rates are deemed to be sufficient by the Scottish Ministers.

Appendix B2 is contained in Annex A of Part 2 of Schedule 2 in Volume 2A of this Contract.

Definitions

1. M - Rates in this column are for carrying out Operations on motorways slip roads and roundabouts all of which are subject to Motorway regulations.
2. D - Rates in this column are for carrying out Operations on dual carriageways
3. S - Rates in this column are for carrying out Operations on single carriageways slip roads and roundabouts all of which are not subject to Motorway regulations.

Method of Measurement for Highway Works

Schedule of Pages and Relevant Publication Dates

Chapter/Series	Page Number	Publication Date
Contents	1 to 7 inclusive	November 2004
Chapter I	1 to 3 inclusive	March 1998
Chapter II	1	March 1998
	2	May 2001
Chapter III	1	March 1998
	2	May 2001
	3 to 16 inclusive	May 2004
	17 to 18 inclusive	November 2004
Chapter IV	1	March 1998
100	1 to 2 inclusive	March 1998
	3 to 7 inclusive	May 2001
	8	November 2004
	9 to 11 inclusive	May 2001
	12	November 2004
	13 to 15 inclusive	May 2001
200	1	May 2001
	2 to 3 inclusive	May 2004
	4	May 2001
300	1 to 5 inclusive	May 2001
400	1 to 8 inclusive	November 2004

Chapter/Series	Page Number	Publication Date
500	1 to 5 inclusive	May 2001
	6	November 2004
	7 to 18 inclusive	May 2001
	19	November 2003
600	1	May 2002
	2	May 2001
	3	March 1998
	4 to 11 inclusive	November 2004
	12	May 2002
	13 to 14 inclusive	November 2004
	15 to 38 inclusive	May 2001
	N1 to N3 inclusive	May 2002
700	1	May 2001
	2	May 2002
	3	May 2001
	4 to 5 inclusive	May 2002
	6	May 2001
	7 to 9 inclusive	May 2002
	10	May 2001
	11	May 2002
	12 to 13 inclusive	May 2001
	14	May 2002
	15 to 18 inclusive	May 2001
800	Not taken up	
900	Not taken up	

Chapter/Series	Page Number	Publication Date
1000	Not taken up	
1100	1	May 2001
	2	November 2004
	3	May 2001
	4 to 5 inclusive	May 2002
	6 to 7 inclusive	May 2001
1200	1 to 2 inclusive	May 2001
	3 to 5 inclusive	March 1998
	6 to 11 inclusive	May 2001
1300	1 to 3 inclusive	November 2003
1400	1 to 8 inclusive	May 2001
1500	1 to 2 inclusive	May 2001
	3 to 7 inclusive	February 2003
	8 to 12 inclusive	May 2001
1600	1 to 2 inclusive	March 1998
	3 to 6 inclusive	May 2001
	7	March 1998
	8 to 19 inclusive	May 2001
1700	1	May 2004
	2	May 2001
	3	May 2004
	4 to 11 inclusive	May 2001
1800	1	March 1998
	2 to 5 inclusive	May 2001
1900	1	May 2003

Chapter/Series	Page Number	Publication Date
2000	1	May 2002
	2 to 3 inclusive	May 2001
2100	1	March 1998
2200	Not taken up	May 2004
2300	1 to 3 inclusive	March 1998
2400	1 to 3 inclusive	May 2001
	4	March 1998
2500	1 to 2 inclusive	May 2001
2600	Not taken up	
2700	1	May 2001
3000	1 to 15 inclusive	May 2001
5000	1 to 2 inclusive	May 2003

Series 100 : Preliminaries

Temporary Accommodation

Delete paragraphs 2 to 6 inclusive.

The Operating Company is to allow in his rates and prices for any temporary accommodation he may require for the duration of this Contract, as covered by paragraph 2(ix) of the Preambles to the Schedule of Rates and Prices.

Vehicles for the Overseeing Organisation

Delete paragraphs 7 to 10 inclusive.

The Operating Company is to allow in his rates and prices for any vehicles he may require for the duration of this Contract, as covered by paragraph 2(xxii) of the Preambles to the Schedule of Rates and Prices.”

Communication System for the Overseeing Organisation

Delete paragraphs 11 to 13 inclusive and insert the following paragraph 11

The Operating Company is to allow in his rates and prices for any communications systems he may require for the duration of this Contract, as covered by paragraph 2(xxii) of the Preambles to the Schedule of Rates and Prices.”

Operatives for the Overseeing Organisation

Delete paragraphs 15 to 17 inclusive and insert the following paragraph 15.

The Operating Company is to allow in his rates and prices for any operatives he may require for the duration of this Contract, as covered by paragraph 2(xxii) of the Preambles to the Schedule of Rates and Prices.”

Information Boards

Delete paragraphs 18 to 20 inclusive.

The Operating Company is to allow in his rates and prices for any Site Operations information boards he may require for the duration of this Contract, as covered by paragraph 2(xxiv) of the Preambles to the Schedule of Rates and Prices.”

Traffic Safety and Management

Delete paragraphs 21 to 27 inclusive.

The Operating Company is to allow in his rates and prices for traffic safety and management he may require for the duration of this Contract, as covered by paragraph 2(xii) of the Preambles to the Schedule of Rates and Prices.

Temporary Diversion of Traffic

Delete paragraphs 28 to 33 inclusive.

The Operating Company is to allow in his rates and prices for any temporary diversion for traffic he may require for the duration of this Contract, as covered by paragraph 2(xxv) of the Preambles to the Schedule of Rates and Prices.

Delete paragraph 34 to 39 inclusive and insert the following paragraph 34 to 39D inclusive.

Recovery Vehicles

Units	34	The unit of measurement shall be: (i) recovery vehicleday.				
Measurement	35	The measurement of recovery vehicles shall be for each day or part thereof during which the recovery vehicle is provided. Recovery vehicles are deemed to be site based and not subject to a standby facility.				
Itemisation	36	Separate items shall be provided for recovery vehicles in accordance with Chapter II paragraphs 3 and 4 and the following <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Each type of recovery vehicle.</td></tr></table>	Group	Feature	I	1 Each type of recovery vehicle.
Group	Feature					
I	1 Each type of recovery vehicle.					
Recovery Vehicles	37	The items for recovery vehicles shall in accordance with the Preambles to the Schedule of Rates General Directions include for				
Item coverage		(a) equipment including communications equipment and identification sign; (b) All taxes levies licensing certification and the like required for operating on the public road or highway; (c) comprehensive insurance; (d) replacement vehicle including equipment; (e) depreciation;				

- (f) maintenance;
- (g) fuel, oil and consumables;
- (h) qualified operator and safety officer and provision of documents;
- (i) completion and submission of information log sheets and record sheets;
- (j) vehicle inspections and submission of certificates;
- (k) dealing with shed loads, broken down, accident damaged or abandoned vehicles and removal;
- (l) explanatory leaflets and distribution;
- (m) liaising with police;
- (n) hardstandings, accommodation and servicing;
- (o) locations and facilities for vehicle removal;
- (p) removal of all plant, equipment, hardstandings, accommodation and locations and facilities for vehicle removal;
- (q) vehicle inspection and report;
- (r) lighting board;
- (s) reinstatement.

Recovery Vehicle Response

38 The unit of measurement shall be

- 1 Standby facility for recovery vehicleitem.
- 2 Recovery vehicle response.....number.
- 3 Additional hours for recovery vehiclehour.

Measurement 39 Recovery vehicle response shall only be measured when Ordered by the Director and where recovery vehicles in accordance with paragraph 37 are not required.

The measurement for vehicle recovery response shall cover any period up to a maximum of 2 hours starting from the arrival at and finishing at the departure from the location of the

		recovery or Site Operations on any road in connection with the recovery.										
		The measurement for additional hours for recovery vehicle shall be the hours or part thereof worked at the location of the recovery or Site Operations on any road in connection with the recovery in excess of 2 hours included in the item of vehicle recovery response.										
Itemisation	39A	Separate items shall be provided for recovery vehicle response in accordance with Chapter II paragraphs 3 and 4 and the following										
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Standby facility.</td></tr><tr><td>II</td><td>1 Vehicle response.</td></tr><tr><td></td><td>2 Additional hours.</td></tr><tr><td>III</td><td>1 Each type of recovery vehicle.</td></tr></table>	Group	Feature	I	1 Standby facility.	II	1 Vehicle response.		2 Additional hours.	III	1 Each type of recovery vehicle.
Group	Feature											
I	1 Standby facility.											
II	1 Vehicle response.											
	2 Additional hours.											
III	1 Each type of recovery vehicle.											
		Note Group III Features shall only apply to Group II features										
Standby Facility for Recovery Vehicles	39B	The items for standby facility for recovery vehicle shall in accordance with the Preambles to the Schedule of Rates General Directions include for										
Item coverage		(a) making arrangements for the provision of recovery vehicles when required;										
		(b) all associated costs for standby facility.										
Recovery Vehicle Response	39C	The items for recovery vehicle response shall in accordance with the Preambles to the Schedule of Rates General Directions include for										
Item coverage		(a) mobilisation of resources to meet the response time;										
		(b) recovery vehicles (as this Series paragraph 37).										
Additional Hours for Recovery Vehicle	39D	The items for additional hours for recovery vehicle shall in accordance with the Preambles to the Schedule of Rates General Directions include for										
Item coverage		(a) recovery vehicles (as this Series paragraph 37).										

Series 200 : Site Clearance

Delete paragraphs 2 to 7 inclusive and insert the following paragraphs 2 to 7 inclusive

Site Clearance

Units	2	The units of measurement shall be:	
		(i)	undergrowth square metre;
		(ii)	trees number;
		(iii)	stumps number;
		(iv)	hedges linear metre.
Measurement	3	The measurement of remove undergrowth shall be the area to be cleared as Ordered by the Director.	
		The girth of trees and plant growths shall be measured at a height of 1 metre above ground level and the diameter of stumps shall be measured at ground level.	
		The height of hedges shall be measured from ground level.	
Itemisation	4	Separate items shall be provided for site clearance in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Site clearance.
		II	1 Undergrowth.
			2 Trees exceeding 500mm in girth but not exceeding 1000mm in girth and so on in stages of 500mm.
			3 Stumps exceeding 150mm in diameter but not exceeding 500mm in diameter and so on in stages of 500mm.
			4 Hedges not exceeding 2.5m high.
			5 Hedges exceeding 2.5m but not exceeding 5m high and so on in stages of 2.5m.
Site Clearance	5	The items for site clearance shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	

Item coverage	(a)	demolition, breaking up and removal;
	(b)	in the case of removal of undergrowth, uprooting bushes and other plant growths, removing trees not exceeding 500mm girth and stumps not exceeding 150mm diameter and grubbing up roots;
	(c)	in the case of trees exceeding 500mm girth, tree felling;
	(d)	in the case of stumps exceeding 150mm diameter, grubbing up and blasting stumps and roots;
	(e)	in the case of hedges, uprooting hedge growth and trees not exceeding 500mm girth and stumps not exceeding 150mm diameter and grubbing up roots;
	(f)	credit value of materials;
	(g)	disposal of material (as Series 600 paragraph 39);
	(h)	working around services;
	(i)	backfilling and compaction;
	(j)	taking up or down and dismantling;
	(k)	making good to severed ends of existing fences, hedges and walls;
	(l)	disconnecting and sealing services;
	(m)	preservation of individual or groups of trees, shrubs and the like;
	(n)	reinstatement and making good;
	(o)	filling post and stump holes with acceptable material from any source and compaction;
	(p)	mechanical chipping of felled trees and saplings and spreading up to 25mm thick;
	(q)	treatment of hazardous materials.

Paragraphs 6 and 7 not taken up.

Amend heading as follows

Take Up or Down and Set Aside for Re-use or Remove to Store on or off the Unit or to a Licenced Disposal Facility.

Delete paragraph 8 and substitute the following

Units	8	<p>The units of measurement shall be</p> <p>Take up or down and set aside for re-use or remove to store on or off the Unit or to a licenced disposal facility the following</p> <ul style="list-style-type: none"> (i) brickwork, blockwork and stonework cubic metre; (ii) paved areas and the like,..... square metre; (iii) kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems, fencing, safety barrier, pedestrian guardrail, parapets, parapet rails and the like, copings, string courses and the like linear metre; (iv) cable linear metre; (v) road lighting columns, brackets and wall mountings, traffic sign faces, traffic sign posts, fence posts, safety barrier posts, parapet posts, illegal signs, sign lighting units, sign bracket arms, gates and stiles, street furniture, reflecting road studs, communications cabinets, feeder pillars, posts, brackets, signal indicators, shelves, racking, frames, electronic units and the like number; (vi) chamber covers and frames and gully gratings and frames and the like number; (vii) quadrants number; (viii) individual blocks, features or stones number;
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Delete paragraph 9 and substitute the following

Measurement	9	<p>The measurement for take up or down and set aside for re-use or remove to store on or off the Unit or to a licenced disposal facility brickwork, blockwork, stonework, paved areas, kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems, fencing, safety barrier, pedestrian guardrail, parapets parapet rails and the like, copings, string courses and the like, cable, road lighting columns, brackets and wall mountings, traffic sign faces, traffic sign posts, fence posts, safety barrier posts, parapet posts, illegal signs, sign lighting units, sign bracket arms, gates and stiles, street furniture, reflecting road studs, communications cabinets, feeder pillars, posts, brackets, signal indicators, shelves, racking, frames, electronic units and the like; chamber covers and frames and gully gratings and frames and the like; quadrants, individual blocks,</p>
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features or stones shall be the volumes, areas, lengths or numbers measured.

Take up or down and set aside for re-use or remove to store on or off the Unit or to a licenced disposal facility for fence posts, parapet posts and rails shall only be separately measured when they are a separate operation from the items take up or down and set aside for re-use or remove to store on or off the Unit or to a licenced disposal facility for fences and parapets.

The measurement of take up or down and set aside for re-use or remove to store on or off the Unit or to a licenced disposal facility for safety barrier shall not include the posts which are separately measured.

Delete paragraph 10 and substitute the following

Itemisation

- 10 Separate items shall be provided for take up or down and set aside for re-use or remove to store on or off the Unit or to a licenced disposal facility in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Take up or down and set aside for re-use.
	2 Take up or down and remove to store on or off Unit.
	3 Take up or down and remove to licenced disposal facility.
II	1 Brickwork, blockwork and stonework.
	2 Paved areas and the like.
	3 Kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems, fencing, safety barrier, pedestrian guardrail, parapets, parapet rails and the like.
	4 Copings, string courses and the like.
	5 Cable.
	6 Road lighting columns, brackets and wall mountings, traffic sign faces, traffic sign posts, fence posts, safety barrier posts, parapet posts, illegal

		signs, sign lighting units, sign bracket arms, gates and stiles, street furniture, reflecting road studs and the like.
	7	Communications cabinets, feeder pillars, posts, brackets, signal indicators and the like.
	8	Shelves, racking, frames and the like.
	9	Electronic units and the like.
	10	Chamber covers and frames and gully gratings and frames and the like.
	11	Quadrants.
	12	Individual blocks, features or stones.
III	1	Any types and sizes.
	2	Any heights or mounting height.
IV	1	Different arrangements.
V	1	Untensioned safety barrier.
	2	Tensioned safety barrier.

In paragraph 11 delete “Take Up or Down and Set Aside for Re-use or Remove to Store or Tip off Site” in the marginal heading and first paragraph and replace with “Take Up or Down and Set Aside for Re-use or Remove to Store on or off the Unit or to a Licenced Disposal Facility.

In paragraph 11 delete subparagraph (e) and replace with the following

- (e) cleaning, stacking, palletising of items such as stone, brickwork, blockwork, copings, granite setts, kerbs, concrete paving and the like, protecting and labelling.

Add the following sub-paragraph to paragraph 11

- (r) retrieval of displaced materials from their position after displacement (excluding fees to Railtrack).

After paragraph 11 add the following paragraphs 12 to 15 inclusive

Remove from Store and Take to Licenced Disposal Facility

Units	12	The units of measurement shall be	
		(i)	remove from store and take to licenced disposal facility illegal signnumber.
Measurement	13	The measurement for remove from store and take to licenced disposal facility illegal signs shall be the numbers removed.	
Itemisation	14	Separate items shall be provided for remove from store and take to licenced disposal facility in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Remove from store and take to licenced disposal facility.
		II	1 Illegal signs.
Remove from Store and Take to Tip Off Unit	15	The items for remove from store and take to licenced disposal facility shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	transport and handling;
		(b)	disposal of materials (as Series 600 paragraph 39);
		(c)	logging and recording description of illegal signs and the date of removal to licenced disposal facility.

Series 300 : Fencing and Environmental Barriers

Fencing, Gates and Stiles

Delete paragraph 1 and substitute the following

- | | | |
|-------|---|---|
| Units | 1 | <p>The units of measurement shall be:</p> <ul style="list-style-type: none"> (i) fencing, wire linear metre; (ii) concrete foundation to timber posts number; (iii) gates, stiles number; (iv) fenced tree guards number. |
|-------|---|---|

Delete paragraph 3 and substitute the following

- | | | |
|-------------|---|--|
| Itemisation | 3 | <p>Separate items shall be provided for fencing in accordance with Chapter II paragraphs 3 and 4 and the following</p> |
|-------------|---|--|

Group	Feature
I	<p>1 Each type of fencing.</p> <p>2 Concrete foundation to each type of timber post for each type of fencing.</p> <p>3 Each type of wire.</p> <p>4 Each type of gate.</p> <p>5 Each type of stile.</p> <p>6 Each type of fenced tree guard.</p>
II	<p>1 Fencing of different heights.</p> <p>2 Gates of different heights and widths.</p>
III	<p>1 Painted fencing, gates or stiles.</p>
IV	<p>1 With polythene mesh.</p>

- | | |
|----------------|---|
| Fencing | 4 |
|----------------|---|

Item coverage

Add the following

- (y) delete full stop and insert semi-colon;
- (z) removal of debris and the like on the line of the fencing.

Delete paragraphs 7 to 12 inclusive and substitute the following:

Remove from Store or from where previously Set Aside and Re-erect Fencing, Gates and Stiles

Units	7	<p>The units of measurement shall be</p> <p>(i) remove from store or from where previously set aside and re-erect fencing linear metre;</p> <p>(ii) concrete foundation to timber posts number;</p> <p>(iii) remove from store or from where previously set aside and re-erect gates and stiles number.</p>										
Measurement	8	<p>The measurement of re-erected fencing shall be the developed length along the centre line of the re-erected fencing.</p> <p>The measurement of height of fencing shall be that stated in this Contract for the type of fence.</p> <p>The measurement of width of gates shall be the distance between the outer edges of the stiles; the outer edges of hanging stiles in the case of double gates.</p> <p>The measurement of height of gates shall be the distance between the upper surface of the top rail and the underside of the bottom rail.</p> <p>Concrete foundation to timber posts shall only be measured for those locations Ordered by the Director.</p>										
Itemisation	9	<p>Separate items shall be provided for re-erected fencing, gates and stiles in accordance with Chapter II paragraphs 3 and 4 and the following</p> <table><tr><th>Group</th><th>Feature</th></tr><tr><td rowspan="2">I</td><td>1 Remove from store and re-erect.</td></tr><tr><td>2 Remove from where previously set aside and re-erect.</td></tr><tr><td rowspan="4">II</td><td>1 Each type of re-erected fencing.</td></tr><tr><td>2 Concrete foundation to timber posts of each type of re-erected fencing.</td></tr><tr><td>3 Each type of re-erected gate.</td></tr><tr><td>4 Each type of re-erected stile.</td></tr></table>	Group	Feature	I	1 Remove from store and re-erect.	2 Remove from where previously set aside and re-erect.	II	1 Each type of re-erected fencing.	2 Concrete foundation to timber posts of each type of re-erected fencing.	3 Each type of re-erected gate.	4 Each type of re-erected stile.
Group	Feature											
I	1 Remove from store and re-erect.											
	2 Remove from where previously set aside and re-erect.											
II	1 Each type of re-erected fencing.											
	2 Concrete foundation to timber posts of each type of re-erected fencing.											
	3 Each type of re-erected gate.											
	4 Each type of re-erected stile.											

		III	1	Re-erected fencing of different heights.
			2	Re-erected gates of different heights and widths.
		IV	1	Re-erected painted fencing, gates or stiles.
Remove from Store or from where previously Set Aside and Re-Erect Fencing	10	The items for remove from store or from where previously set aside and re-erect fencing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	loading, transporting from store or from where previously set aside, unloading and positioning for re-erection;	
		(b)	replacing items damaged during the foregoing operations;	
		(c)	modification and new materials;	
		(d)	painting existing painted items;	
		(e)	fencing (as this Series paragraph 4).	
Concrete Foundation to Timber Posts	11	The items for concrete foundation to timber posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	concrete foundation to timber posts (as this Series paragraph 5).	
Remove from Store or from where previously Set Aside and Re-erect Gates and Stiles	12	The items for remove from store or from where previously set aside and re-erect gates and stiles shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	loading, transporting from store or where previously set aside, unloading and positioning for re-erection;	
		(b)	replacing items damaged during the foregoing operations;	
		(c)	modification and new materials;	
		(d)	painting existing painted items;	
		(e)	gates and stiles (as this Series paragraph 6).	

After paragraph 16 add the following paragraphs 17 to 26 inclusive

Repairs to Existing Fencing – Renew Components

Units	17	The units of measurement shall be		
		(i)	boarding to close boarded fence square metre;	
		(ii)	panel to sound absorption fence square metre;	
		(iii)	rails, wire, chain link, mesh linear metre;	
		(iv)	posts, struts, pales, concrete foundation number;	
Measurement	18	The measurement of repairs to existing fencing shall include minor repairs and replacement of entire lengths of fence up to a maximum of 20m.		
Itemisation	19	Separate items shall be provided for repairs to existing fencing in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Renew boarding to close boarded fence.
			2	Renew panel to sound absorption fence.
			3	Renew each type of rail, wire, chain link or mesh.
			4	Renew each type of post, strut or pale.
			5	Concrete foundation.
		II	1	Different types of fencing.
		III	1	Different heights of fencing.
Replace Rails, Wire, Chain Link, Mesh	20	The items for renew rails, wire, chain link and mesh shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	removal of existing fence rails, wire and chain link;	
		(b)	disposal of material (as Series 600 paragraph 39);	
		(c)	removal of old fixings;	

		(d)	dismantling and re-erection of existing fence to facilitate removal of components;
		(e)	fittings and fixings;
		(f)	trimming ground on line of fencing;
		(g)	protective system (as Series 1900 paragraph 4);
		(h)	preservation of timber.
Renew Posts and Struts and Pales	21		The items for renew posts, struts and pales shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		(a)	removal of existing posts, struts and pales;
		(b)	removal of old fixings;
		(c)	dismantling and re-erection of existing fence to facilitate renewal of components;
		(d)	excavation of acceptable material (as Series 600 paragraphs 17 and 18);
		(e)	excavation of unacceptable material (as Series 600 paragraphs 19);
		(f)	breaking up foundations;
		(g)	disposal of material (as Series 600 paragraph 39);
		(h)	backfilling and compaction;
		(i)	fittings and fixings;
		(j)	protective system (as Series 1900 paragraph 4);
		(k)	preservation of timber;
		(l)	epoxy resin compound and mastic filler to posts fixed in sockets.
Concrete Foundations to Posts	22		The items for concrete foundations to posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		(a)	concrete foundations (as this Series paragraph 5).

Renew Boarding to Close Boarded Fence and Panel to Sound Absorption Fence 23 The items for renew boarding to close boarded fence and panel to sound absorption fence shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

- Item coverage
- (a) fencing (as this Series paragraph 4);
 - (b) removing existing boarding and infills;
 - (c) disposal of material (as Series 600 paragraph 39);
 - (d) dismantling and re-erection of existing fence to facilitate renewal of items;
 - (e) fittings and fixings.

Repairs to Existing Fencing - Re-Erect Existing Components

Units 24 The units of measurement shall be

- (i) re-erect existing rail linear metre;
- (ii) re-erect existing post, existing panel to sound absorption fence..... number.

Itemisation 25 Separate items shall be provided for in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Each type of rail.
	2 Each type of post.
	3 Each type of panel.
II	1 Fencing of different heights.

Re-Erect Existing Rail, Posts and Panels 26 The items for re-erect existing rails, posts and panels shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

- Item coverage
- (a) positioning for re-erection;
 - (b) replacing items damaged during the foregoing operation;
 - (c) bolts, fittings and fixings, including permanent reinstating around fence posts to match existing surfaces;

(d) fencing (as this Series paragraph 4).

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Series 400: Road Restraint Systems (Vehicle and Pedestrian)

Connections to Existing Systems

Paragraph 12 add the following:

Group	Feature
IV	2 Any type of connection.

Safety Barriers

Paragraph 18 add the following

Units (ii) infill panel.....square metre.

Paragraph 19 add the following

Measurement Where infill is required to vehicle parapets it shall be separately measured.

The measurement infill shall be the area of the infill.

Paragraph 20 add the following

Group	Feature
VII	1 Infill panel to vehicle parapet.
VIII	1 Class of infill panel.
IX	1 Type of infill panel.
X	1 Any performance class, working width, height, location, straight or curved to any location.

Note 1: Group VIII, IX and X features shall only be applied to Group VII feature 1 infill panel to vehicle parapet.

Pedestrian Parapets and Pedestrian Guardrails

Paragraph 23 add the following

(ii) infill panel.....square metre.

Paragraph 24 add the following

Measurement Where infill is required to pedestrian parapets it shall be separately measured.

The measurement infill shall be the area of the infill.

Paragraph 25 add the following

Group	Feature
VII	1 Infill panel to pedestrian parapet.
VIII	1 Class of infill panel.
IX	1 Type of infill panel.
X	1 Any height, straight or curved to any radius.

Note 1: Group VIII, IX and X features shall only be applied to Group VII feature 1 infill panel to pedestrian parapet.

Delete paragraphs 31 to 41 inclusive and replace with the following paragraphs 31 to 41 inclusive

31 Remove from Store or from where previously Set Aside and Re-erect Safety Barriers, Vehicle Parapets, Pedestrian Parapets, Pedestrian Guardrails and Pedestrian Handrails

Units

The units of measurement shall be

- (i) remove from store or from where previously set aside and re-erect beams, vehicle parapets, parapet rails, pedestrian parapets, pedestrian guardrails and pedestrian handrails linear metre;
- (ii) infill panels.....square metres;
- (iii) remove from store or from where previously set aside and re-erect posts, mounting brackets, terminal sections, full height anchorages, expansion joint anchorages, connections to bridge parapets, connection pieces number;
- (iv) concrete foundations and socketed foundations to re-erected posts number;
- (v) Additional concrete in foundations to posts.....cubic metres.

Measurement	<p>32A The measurement of re-erected beams shall be the developed length along the centreline of the beams or in the case of double sided safety barrier and double rail safety barrier, measured once only along the centreline of the posts, between the following points</p> <ul style="list-style-type: none"> (a) the end of each safety barrier type at a connection to bridge parapet or within a connection piece assembly; (b) the connection of safety barrier to terminal sections, full height anchorages and expansion joint anchorages. <p>32B The measurement of re-erected vehicle parapets parapet rails and pedestrian parapets, pedestrian guardrails and pedestrian handrails shall be the developed length along the centreline of the units between the following points</p> <ul style="list-style-type: none"> (a) the end of each type of unit at a connection to a safety barrier a different type of parapet, guardrail or handrail or within a connection piece assembly. <p>33 Where infill is required to vehicle parapets it shall be a separately measured item of infill to any vehicle parapet.</p> <p>The measurement of remove from store or from where previously set aside and re-erect infill panels shall be the area of the infill panel.</p> <p>34 The measurement of remove from store or from where previously set aside and re-erect terminal sections, full height anchorages, expansion joint anchorages and connections to bridge parapets shall be the complete installation.</p> <p>Mounting brackets and all other posts required between those defined in paragraph 32A shall be measured.</p> <p>Concrete foundations and socketed foundations to posts, between those points defined in paragraphs 32A and 32B shall only be measured for those locations stated in this Contract.</p> <p>35 The measurement of remove from store or from where previously set aside and re-erect connection pieces shall be the complete installation.</p>
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The measurement of remove from store or from where previously set aside and re-erect expansion joint anchorages shall be for each anchorage on each side of the expansion joint.

Itemisation 36 Separate items shall be provided for remove from store or from where previously set aside and re-erect safety barrier in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Remove from store and re-erect.
	2 Remove from where previously set aside and re-erect.
II	1 Each type of re-erected safety beam.
	2 Each type of re-erected post.
	3 Each type of re-erected mounting bracket.
	4 Each type of re-erected terminal section.
	5 Each type of re-erected full height anchorage.
	6 Each type of re-erected expansion joint anchorage.
	7 Each type of re-erected connection to bridge parapet.
	8 Each type of re-erected connection piece.
	9 Each type of concrete foundation to re-erected post.
	10 Each type of socketed foundation to re-erected post.
	11 Each type of vehicle parapet.
	12 Each type of parapet rail
	13 Each type of parapet infill panel.
	14 Each type of pedestrian parapet.

	15	Each type of pedestrian guardrail.
	16	Each type of pedestrian handrail.
	17	Additional concrete in foundations to posts.
III	1	Straight or curved exceeding 120 metres radius.
	2	Straight or curved exceeding 50 metres radius.
	3	Curved exceeding 50 metres radius but not exceeding 120 metres radius.
	4	Curved not exceeding 50 metres radius.
	5	Straight or curved to any radius.

Note 1: Group III feature 5 shall only be applied to Group II feature 13 infill panel.

Remove from Store or from where previously Set Aside and Re-erect Beams, Vehicle Parapets, Pedestrian Parapets, Pedestrian Guardrails and Pedestrian Handrails.

37 The items for remove from store or from where previously set aside and re-erect beams, vehicle parapets, parapet rails and infill panels, pedestrian parapets, pedestrian guardrails and pedestrian handrails shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage	(a)	loading, transporting from store or from where previously set aside, unloading and positioning for re-erection;
	(b)	replacing items damaged during the foregoing operations;
	(c)	modification and new materials;
	(d)	safety barriers and transitions (as this Series paragraph 5);
	(e)	vehicle parapets (as this Series paragraph 21);
	(f)	pedestrian parapets (as this Series paragraph 26);
	(g)	pedestrian guardrails and pedestrian handrails (as this Series paragraph 26);
	(h)	making good to protective system.

Remove from Store or from where previously Set Aside and Re-erect Posts

38

The items for remove from store or from where previously set aside and re-erect posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage	(a)	loading, transporting from store or from where previously set aside, unloading and positioning for re-erection;
	(b)	replacing items damaged during the foregoing operations;
	(c)	modification and new materials;
	(d)	making good to protective system;
	(e)	fabrication (as Series 1800 paragraph 6);
	(f)	protective system (as Series 1900 paragraph 4);
	(g)	driving in any material;
	(h)	fixing to Structures including attachment systems;
	(i)	fixing to beam, parapet, guardrail or handrail including spacers;
	(j)	drilling or forming holes and pockets and casting in bolts, base plates and anchorage assemblies;

		(k)	bedding;
		(l)	filling;
		(m)	making good to protective system.
Remove from Store or from where previously Set Aside and Re-erect Mounting Brackets	39		The items for remove from store or from where previously set aside and re-erect mounting brackets shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		(a)	loading, transporting from store or from where previously set aside, unloading and positioning for re-erection;
		(b)	replacing items damaged during the foregoing operations;
		(c)	modification and new materials;
		(d)	making good to protective system;
		(e)	fabrication (as Series 1800 paragraph 6);
		(f)	protective system (as Series 1900 paragraph 4);
		(g)	fixing to Structures including adaptor platforms;
		(h)	fixing to beam;
		(i)	drilling or forming holes and pockets and casting in bolts, base plates and anchorage assemblies.
Remove from Store or from where previously Set Aside and Re-erect Terminal Sections, Full Height Anchorages, Expansion Joint Anchorages, Connections to Bridge Parapets and Connection Pieces	40		The items for remove from store or from where previously set aside and re-erect terminal sections, full height anchorages, expansion joint anchorages, connections to bridge parapets and connection pieces shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage	(a)	loading, transporting from store or from where previously set aside, unloading and positioning for re-erection;
	(b)	replacing items damaged during the foregoing operations;
	(c)	modification and new materials;
	(d)	making good to protective system;
	(e)	terminals (as this Series paragraph 9);
	(f)	connections to existing systems (as this Series paragraph 13).

Standard Concrete Foundations to Posts, Sleeved Concrete Footings to Posts, Socketed Concrete Foundations to Posts and Additional Concrete Foundations to Posts	41.	The items for standard concrete foundations to posts, sleeved concrete foundations to posts, socketed concrete foundations to posts and additional concrete foundations to posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
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Item coverage	(a)	excavation of acceptable material (as Series 600 paragraphs 17 and 18);
	(b)	excavation of unacceptable material (as Series 600 paragraph 19);
	(c)	concrete (as Series 1700 paragraphs 4 and 9);
	(d)	formwork (as Series 1700 paragraph 14);
	(e)	reinforcement (as Series 1700 paragraph 25);
	(f)	disposal of material (as Series 600 paragraph 39);
	(g)	granular fill and compaction;
	(h)	plastic sheeting;
	(i)	casings.

Add the following paragraphs 48 to 64 inclusive

Repairs to Safety Barriers, Vehicle Parapets, Pedestrian Parapets and Pedestrian Guardrails and Handrails

Definition	48	Repairs to safety barriers, vehicle parapets, pedestrian parapets and pedestrian guardrails shall be the complete replacement of the whole of the damaged apparatus and shall include posts and rails.
Units	49	<p>The units of measurement shall be</p> <p>(i) invoiced costs of new componentssum;</p> <p>(ii) percentage to be added to invoiced costs....percentage.</p>
Measurement	50	<p>The measurement of repairs to safety barriers, vehicle parapets, pedestrian parapets and pedestrian guardrails shall be as follows</p> <p>Take up or down and remove to licensed disposal facility (measured in Series 200 Site Clearance) for any components that cannot be re-used.</p> <p>Take up or down and remove to set aside (measured in Series 200 Site Clearance) for any components that can be re-used.</p> <p>Remove from where previously set aside and re-erect (measured as this Series paragraphs 31 to 40) for any components that can be reused.</p> <p>Remove from store and re-erect (measured as this Series paragraphs 31 to 40) for any components that are available in store.</p> <p>Invoiced costs of any new components.</p> <p>The measurement of invoiced costs of new components shall be the value of invoices received, after any discounts given except in respect of any discount for prompt payment not exceeding 2½% which may be retained by the Operating Company.</p> <p>The percentage adjustment shall be applied to the invoiced costs excluding VAT</p>

Itemisation	51	Separate items shall be provided for invoiced costs of new components in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Invoiced costs of new components.
			2 Percentage to be added to invoiced costs.
Percentage to be Added to Invoiced Costs of New Components.	52	The percentage to be added to invoiced costs new components shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for	
Item Coverage	(a)	all costs in connection with the procurement of new components.	

Painting of Safety Barriers, Pedestrian Guardrail and Handrail Units

Units	53	The unit of measurement shall be	
	(i)	painting of Safety Barriers, Pedestrian Guardrail and Handrail Units..... linear metre.	
	54	Painting of Safety Barriers, Pedestrian Guardrail and Handrail Units shall only be measured when Ordered by the Director.	
Itemisation	55	Separate items shall be provided for extra over repairs for Painting of Safety Barriers, Pedestrian Guardrail and Handrail Units in accordance with Chapter II paragraph 3 and 4 and the following	
		Group	Feature
		I	1 Painting of safety barrier unit.
			2 Painting of pedestrian guardrail unit.
			3 Painting of pedestrian handrail unit.
Painting of Safety Barriers, Pedestrian Guardrail and Handrail Units	56	The items for extra over repairs for painting of guardrail shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage	(a)	protection of steelwork against corrosion (as Series 1900 paragraph 4).	

Temporary Safety Barrier

Units	57	The units of measurement shall be:		
		(i)	temporary safety barrier metre.	
Measurement	58	The measurement of temporary safety barrier shall be the developed length along the centreline of the temporary safety barrier including terminal sections.		
Itemisation	59	Separate items shall be provided for temporary safety barriers in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group	Feature	
		I	1	Each type of safety barrier system.
Temporary Safety Barriers	60	The items for temporary safety barriers shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	safety barriers and transitions (as this series paragraph 5);	
		(b)	terminals (as this series paragraph 9);	
		(c)	dismantling, loading, transporting removal and unloading.	

Excavation in Hard Material

Units	61	The units of measurement shall be
	(i)	extra over excavation for excavation in Hard Material in safety barrier vehicle parapet pedestrian parapet pedestrian guardrail and pedestrian handrail..... cubic metre.
	62	The measurement shall be the volume of the voids formed by the removal of the Hard Material.
	63	Separate items shall be provided for extra over excavation for excavation in Hard Material in safety barrier vehicle parapet pedestrian parapet pedestrian guardrail and pedestrian handrail in accordance with Chapter II paragraphs 3 and 4 and the following:
<hr/>		
	Group	Feature
	<hr/>	
	I	1
		Extra over excavation for excavation in Hard Material in safety barrier vehicle parapet pedestrian parapet

		pedestrian guardrail and pedestrian handrail.
Extra Over Excavation for Excavation in Hard Material	64	The items for extra over excavation for excavation in Hard Material in safety barrier vehicle parapet pedestrian parapet pedestrian guardrail and pedestrian handrail shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage	(a)	Excavation in Hard Material (as Series 600 paragraph 23).

Series 500 : Drainage and Service Ducts

Drains and Service Ducts (Excluding Filter Drains, Narrow Filter Drains and Fin Drains)

9 Add the following sub paragraph

- (ii) Extra over any item of drains, service ducts for backfilling with foamed concretemetre.

15 Add the following to Group VII

Group Feature

VII 1 Extra over drain or service duct for backfilling with foamed concrete.

Filter Drains

Units

17 Add the following sub paragraph

- (vi) Extra over any item of excavate and replace filter material for red chippings to the surface of filter drain.....cubic metre.

Measurement

20 Add the following paragraph

The measurement of extra over any item of excavate and replace filter material for red chippings to the surface of filter drain shall be the product of the surface lengths and width and depth Ordered by the Director.

Itemisation

21 Add the following to Groups I and V and add new Group VI

Group Feature

I 6 Extra over any item of excavate and replace filter material for red chippings to the surface of filter drain.

V 2 In verge.

3 In central reserve.

4 In locations other than verges and central reserves.

VI 1 Depths not exceeding 100mm.

Replacement, Raising or Lowering of Covers and Gratings on Existing Chambers and Gullies

Replacement, Raising or Lowering of Covers and Gratings on Existing Chambers and Gullies

64

Item coverage

(t) delete full stop and insert semi-colon.

Add the following:

- (u) polyester epoxy mortar or ultra-rapid hardening cementitious mortar;
- (v) paving material infilling to covers;
- (w) credit value of materials.

Delete paragraphs 65 to 68 inclusive and substitute the following paragraphs 65 to 68 inclusive

Remove from Store or from where previously Set Aside and Reinstall Chamber Covers and Frames, and Gully Gratings and Frames.

Units

65

The unit of measurement shall be

remove from store or from where previously set aside and reinstall chamber covers and frames and gully gratings and frames number.

Measurement

66

The measurement of remove from store or from where previously set aside and reinstall chamber covers and frames and gully gratings and frames shall be the complete installation.

Itemisation

67

Separate items shall be provided for remove from store or from where previously set aside and reinstall chamber covers and frames and gully gratings and frames in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
-------	---------

I	1	Remove from store and reinstall different types of chamber covers and frames.
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	2	Remove from store and reinstall different types of gully gratings and frames.
	3	Remove from where previously set aside and reinstall different types of chamber covers and frames.
	4	Remove from where previously set aside and reinstall different types of gully gratings and frames.
	II	1 Different sizes.
	III	1 Brick chamber or gully.
		2 Precast concrete chamber or gully.
Remove from Store or from where previously Set Aside and Reinstall Chamber Covers and Frames and Gully Gratings and Frames	68	The items for remove from store or from where previously set aside and reinstall chamber covers and frames and gully gratings and frames shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage	(a)	loading, transporting from store or where previously set aside, unloading and positioning for reinstallation;
	(b)	replacing items damaged during the foregoing operations;
	(c)	modification and new materials.
		raising or lowering covers and gratings on existing chambers and gullies (as this Series paragraph 64).
		Delete paragraphs 81 to 84 inclusive and substitute the following paragraphs 81 to 116 inclusive.
		Drain Survey
Units	81	The unit of measurement shall be:
	(i)	drain survey kilometre.
Measurement	82	The measurement of drain survey shall be the length of carriageway.

Itemisation	83	Separate items shall be provided for drain surveys in accordance with Chapter II paragraphs 3 and 4 and the following										
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Drain survey.</td></tr><tr><td>II</td><td>1 Type 1.</td></tr><tr><td></td><td>2 Type 2.</td></tr><tr><td></td><td>3 Type 3.</td></tr></table>	Group	Feature	I	1 Drain survey.	II	1 Type 1.		2 Type 2.		3 Type 3.
Group	Feature											
I	1 Drain survey.											
II	1 Type 1.											
	2 Type 2.											
	3 Type 3.											
Drain Survey Type 1	84	The items for drain survey Type 1 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:										
Item coverage		<ul style="list-style-type: none">(a) carrying out desk study using available data;(b) locating chambers, pump chambers, balancing ponds, penstocks, flap valves, headwalls, outfalls, and the like on site;(c) recording all data on site.										
Drain Survey Type 2	85	The items for drain survey Type 2 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for										
Item coverage		<ul style="list-style-type: none">(a) locating chambers;(b) removal, setting aside and replacement of covers and gratings;(c) all safety and other equipment;(d) testing for toxic gases and oxygen deficiency;(e) removal of toxic gases;(f) awaiting clearance of toxic gases and oxygen deficiency;(g) measurement of pipe sizes;(h) measurement of depth to invert from surface;(i) removal of all survey and test equipment after use;(j) recording all data at chambers;(k) reinstatement of the Site;										

		(l) working in confined spaces.
Drain Survey Type 3	86	The items for drain survey Type 3 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		<ul style="list-style-type: none"> (a) locating chambers; (b) removal, setting aside and replacement of covers and gratings; (c) all safety and other equipment; (d) testing for toxic gases and oxygen deficiency; (e) removal of toxic gases; (f) awaiting clearance of toxic gases and oxygen deficiency; (g) measurement of pipe sizes; (h) measurement of invert level of pipes; (i) condition survey; (j) removal of all survey and test equipment after use; (k) recording all data at chambers; (l) reinstatement of the Site; (m) working in confined spaces.
Setting up Closed Circuit Television Equipment for Drain Survey		
Units	87	The unit of measurement shall be: <ul style="list-style-type: none"> (i) setting up closed circuit television equipment for drain survey number.
Measurement	88	<p>The measurement of setting up closed circuit television equipment for drain survey shall be the number of chambers at which the equipment is set up.</p> <p>Any additional setting up of equipment for drain survey to suit the Operating Company's method of working shall not be measured.</p>
Itemisation	89	Separate items shall be provided for setting up survey equipment for drain survey in accordance with Chapter II paragraphs 3 and 4 and the following:

		Group	Feature
		I	1 Setting up closed circuit television equipment for drain survey.
		II	1 Depth of chamber not exceeding 3m in depth to lowest pipe invert.
			2 Depth of chamber exceeding 3m but not exceeding 6m in depth to lowest pipe invert.
			3 Depth of chamber exceeding 6m but not exceeding 9m in depth to lowest pipe invert.
Setting up Closed Circuit Television Equipment for Drain Survey	90	The items for setting up closed circuit television equipment for drain survey shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	locating chambers;
		(b)	removal, setting aside and replacement of covers and gratings;
		(c)	moving and setting up Closed Circuit Television Camera equipment at each chamber;
		(d)	all safety and other equipment;
		(e)	testing for toxic gases and oxygen deficiency;
		(f)	removal of toxic gases;
		(g)	awaiting clearance of toxic gases and oxygen deficiency;
		(h)	inserting equipment into drains;
		(i)	removal of all survey and test equipment after use;
		(j)	recording all data at chambers;
		(k)	reinstatement;
		(l)	working in confined spaces.
Drain Survey by Closed Circuit Television Camera			
Units	91	The unit of measurement shall be	

		(i)	drain survey by closed circuit television camera linear metre.
Measurement	92		Measurement for drain survey by closed circuit television camera shall be the length measured along the centre lines of the pipes between any of the following
		(a)	the external faces of chambers, gullies or headwalls;
		(b)	the intersection of the centre lines at pipe junctions;
		(c)	the position of any known terminations.
Itemisation	93		Separate items shall be provided for drain survey by closed circuit television camera in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group	Feature
		I	1 Drain survey by closed circuit television camera.
		II	1 Not exceeding 225mm diameter.
			2 Exceeding 225mm diameter but not exceeding 450mm diameter.
			3 Exceeding 450mm diameter but not exceeding 900mm diameter.
		III	1 Access from one end only.
			2 Access from both ends.
Drain Survey by Closed Circuit Television Camera	94		The items for drain survey by closed circuit television camera shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a)	recording data and supplying the Director with preliminary records;
		(b)	water supplies including all charges and licences;
		(c)	picture quality tests and linear measurement checks;
		(d)	removal of equipment from drains;
		(e)	working in confined spaces.
			Reports on Drain Surveys
Units	95		The units of measurement shall be

		(i) reports on drain surveys, video tapes on drain surveys number.												
Itemisation	96	Separate items shall be provided for reports and video tapes on drain surveys in accordance with Chapter II paragraphs 3 and 4 and the following:												
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Reports on drain surveys.</td></tr><tr><td></td><td>2 Video tapes on drain surveys.</td></tr><tr><td>II</td><td>1 Type 1.</td></tr><tr><td></td><td>2 Type 2.</td></tr><tr><td></td><td>3 Type 3.</td></tr></table>	Group	Feature	I	1 Reports on drain surveys.		2 Video tapes on drain surveys.	II	1 Type 1.		2 Type 2.		3 Type 3.
Group	Feature													
I	1 Reports on drain surveys.													
	2 Video tapes on drain surveys.													
II	1 Type 1.													
	2 Type 2.													
	3 Type 3.													
Reports on Drain Surveys	97	The items for reports on drain surveys shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for												
Item coverage		(a) preparation and collation of data; (b) interpreting data; (c) provision of photographs and record drawings; (d) preparation of reports; (e) printing and binding; (f) delivery of reports to the Director.												
Video Tapes on Drain Surveys	98	The items for video tapes on drain surveys shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for												
Item coverage		(a) identification of locations; (b) delivery of video tapes to the Director.												
		Rodding Eyes												
Units	99	The unit of measurement shall be:												
		(i) rodding eyes number.												
Measurement	100	The measurement shall be of the complete installation.												

			The depths of rodding eyes shall be the distance measured vertically between the top surface of the cover and the invert of the drain or, in the case of double rodding eyes, of the lower drain.
Itemisation	101		Separate items shall be provided for rodding eyes in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group	Feature
		I	1 Rodding eyes to different pipe sizes.
		II	1 Depth to invert not exceeding 1 metre.
			2 Depths to invert exceeding 1 metre but not exceeding 2 metres, and so on in steps of 1 metre.
			1 Access from one end only.
			2 Access from both ends.
Rodding Eyes	102		The items for rodding eyes shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a)	excavation (as Series 600 paragraphs 17, 18, 19 and 23);
		(b)	cutting, laying, jointing and bedding pipes and fittings;
		(c)	connecting drain pipe;
		(d)	formwork (as Series 17 paragraph 14);
		(e)	in-situ concrete (as Series 17 paragraphs 4 and 9);
		(f)	brickwork (as Series 2400);
		(g)	covers, frames and bedding, and cover keys;
		(h)	backfilling with acceptable material from any source and compaction;
		(i)	disposal of material (as series 600 paragraph 39).

Protection to Existing Sewer, Drain or Service Duct

Units	103	The unit of measurement shall be																				
		(i) protection to existing sewer, drain or service duct linear metre.																				
Measurement	104	The measurement of protection existing sewer, drain or service duct shall be the length of the protection measured along the centre line of the existing sewer, drain or service duct.																				
	105	The depth of excavation shall be the vertical measurement between underside of the protection and the Existing Ground Level except that where the Earthworks Outline is below the Existing Ground Level the measurement shall be taken to the Earthworks Outline.																				
Itemisation	106	Separate items shall be provided for drain surveys in accordance with Chapter II paragraphs 3 and 4 and the following:																				
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Protection existing sewer, drain or service duct.</td></tr><tr><td>II</td><td>1 500mm wide.</td></tr><tr><td></td><td>2 1000mm wide.</td></tr><tr><td></td><td>3 1500mm wide.</td></tr><tr><td></td><td>4 2000mm wide.</td></tr><tr><td>III</td><td>1 Specified type of protection.</td></tr><tr><td>IV</td><td>1 Specified thickness.</td></tr><tr><td>V</td><td>1 Depths not exceeding 2 metres. The average depth to be stated to the nearest 25mm.</td></tr><tr><td></td><td>2 Depths exceeding 2 metres but not exceeding 4 metres. The average depth to be stated to the nearest 25mm.</td></tr></table>	Group	Feature	I	1 Protection existing sewer, drain or service duct.	II	1 500mm wide.		2 1000mm wide.		3 1500mm wide.		4 2000mm wide.	III	1 Specified type of protection.	IV	1 Specified thickness.	V	1 Depths not exceeding 2 metres. The average depth to be stated to the nearest 25mm.		2 Depths exceeding 2 metres but not exceeding 4 metres. The average depth to be stated to the nearest 25mm.
Group	Feature																					
I	1 Protection existing sewer, drain or service duct.																					
II	1 500mm wide.																					
	2 1000mm wide.																					
	3 1500mm wide.																					
	4 2000mm wide.																					
III	1 Specified type of protection.																					
IV	1 Specified thickness.																					
V	1 Depths not exceeding 2 metres. The average depth to be stated to the nearest 25mm.																					
	2 Depths exceeding 2 metres but not exceeding 4 metres. The average depth to be stated to the nearest 25mm.																					

Note: For each item which includes a Group V feature 1 or 2, an associated item shall be provided for adjustment of the rate for each 25mm of difference in excess of 150mm where the average depth calculated from site measurement varies from that stated in the Schedule of Rates.

The foregoing shall apply to both increases and decreases of average in excess of 150mm and will result in either a positive or negative adjustment of the rate.

Protection to Pipes	107	The items for Protection to Pipes shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none">(a) excavation of acceptable material (as Series 600 paragraphs 17 and 18);(b) excavation of unacceptable material (as Series 600 paragraphs 19);(c) formwork (as Series 1700 paragraph 15);(d) backfilling with acceptable material from any source and compaction;(e) disposal of material (as Series 600 paragraph 19);(f) reinstatement of unpaved areas.

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Series 600 : Earthworks

Earthworks

In paragraph 15 add the following sub-paragraphs

- (j) The cutting of new grips in new locations on the Unit shall be measured as excavation in new watercourses;
- (k) Excavation within existing culverts in excess of the requirements of Part 1 of Series which shall only be measured with the approval of the Director.

In paragraph 16 add the following feature to group III

Group	Feature
III	12 Within existing culverts.

Disposal of Material

In paragraph 39 delete sub-paragraph (a) and replace with the following

- (a) haulage and deposition in licenced disposal facility.

Disused Sewers, Drains, Cables, Ducts, Pipelines and the Like Occurring at Formation or Sub-formation Level; Disused Basements, Cellars and the Like and Gullies

In paragraph 70 add the following Group III feature:

Group	Feature
III	2 Any size.

Clearing of Existing Ditches

Delete paragraph 92 and substitute the following paragraph 92.

Itemisation

- 92 Separate items shall be provided for clearing of existing ditches in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Clearing of existing ditches.
II	1 Cross sectional area not exceeding 2 square metres.
	2 Cross sectional area exceeding 2 square

metres but not exceeding 5 square metres.

3 Exceeding 5 square metres.

Trial Pits

Trial Pits 169

Item coverage Delete sub paragraph (c) and substitute the following

(c) not used.

After paragraph 177 add the following paragraphs 178 to 181 inclusive.

Siding out of Carriageways, Footways and Paved Areas

Units 178 The units of measurement shall be

(i) siding out of carriageways, footways and paved areas linear metre.

Measurement 179 The measurement of siding out of carriageways, footways and paved areas shall be the total linear length Ordered by the Director.

No deduction shall be made for gaps within the length of 2 metres or less.

Itemisation 180 Separate items shall be provided for siding out of carriageways, footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Siding out of carriageways.
	2 Siding out of footways and paved areas.
II	1 Not exceeding 250 mm wide.
	2 Exceeding 250 mm but not exceeding 500 mm wide.
III	1 Disposal of arisings on adjacent verge.
	2 Disposal of arisings at a tip off Unit.

Siding out of Carriageways, Footways and Paved Areas 181 The items for siding out of carriageways, footways and paved areas shall in accordance with the Preamble to Schedule of Rates and Prices General Directions include for:

Item coverage	(a)	programming the work in advance of any other operation at the site;
	(b)	breaking up and removal of hardened dirt areas;
	(c)	prevention of damage to existing carriageways, footways and paved areas;
	(d)	disposal of material by spreading and levelling on verge;
	(e)	disposal of material (as Series 600 paragraph 39);
	(f)	trimming of edges to a neat line;
	(g)	leaving carriageway, footway and verge clear of debris.

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Series 700 : Pavements

Sub - base

In paragraph 4 delete group II features.

Pavement

In paragraph 8 delete group VI features.

Base, Lower Base, Upper Base, Binder Course, Surface Course and Concrete Slab

9

Item coverage

Delete saw-cutting in sub-clause (h).

Surface Treatment

19

Item coverage

(e) delete full stop and add semi colon.

Add the following

(f) different colours.

Reinstatement of Paved Areas

Delete paragraph 33 and 34 and substitute the following paragraphs 33 and 34:

Units

33

(i) The unit of measurement shall be: reinstatement of paved area cubic metre.

Measurement

34

The measurement of reinstatement of paved area shall be calculated using the width and length of the top surface to be reinstated excluding sides and edges multiplied by the depth of the particular reinstated material.

No deduction shall be made for openings of 1 square metre or less.

The top surface for the following features shall be the widths or areas described below:

(a) for drains, sewers, piped culverts, service ducts and filter drains - the width shall be the internal diameter of the pipe plus 600 mm;

- (b) for kerbs, channels, edgings, combined drainage and kerb blocks linear drainage channel systems and the like - the width of the foundations;
- (c) for chambers, gullies, traffic signs, traffic signals, road lighting columns and the like - the horizontal area of the base slab or where no base slab is required the area of the bottom of the excavation.

Itemisation

35 Delete Group II and substitute the following:

Group	Feature
II	1 In carriageways.
	2 In footways, paved areas and cycle facilities.

Reinstatement of Paved Area

36

Item coverage

- (l) delete full stop add semi colon.

Add the following

- (m) excavation of temporary reinstatement (as Series 600 paragraph 17, 18, 19 and 23);
- (n) disposal of material (as Series 600, paragraph 39).

Repairs to Carriageway Defects

Delete paragraphs 77 to 81 and substitute the following

Repairs of Carriageway Defects – Category 1 Defects

Definition

77 Where a carriageway Defect is classified as Category 1 Defect it shall be measured in two elements consisting of

- (i) temporary repair of carriageway Defect Category 1 Defect;
- (ii) permanent repair of carriageway Defect Category 1 Defect.

Measurement

78 The measurement of the temporary repair of carriageway Defect Category 1 Defect shall be enumerated based on the surface area of the carriageway Defect.

The measurement of permanent repair of carriageway Defect Category 1 Defect shall be measured as follows:

Removal of defective material/temporary repair from items in

Series 600 Earthworks sub sections 01, 02, 04 and 11 or from items in Series 700 Pavement sub section 06 where applicable. Measurement of Series 700 sub section 11 shall be used where a planer is used to remove the defective material/temporary repair.

Replacement with permanent materials from items in Series 700 Pavement sub sections 01 to 05 and 11 where applicable.

If the Operating Company elects to undertake a permanent repair in lieu and in the timescales required elsewhere in this Contract of a temporary repair, the temporary repair shall still be measured.

Units 79 (i) The unit of measurement shall be temporary repair of carriageway Defect Category 1 Defect..... number.

Itemisation 80 Separate items shall be provided for temporary repair of carriageway Defect Category 1 Defect in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Temporary repair of carriageway Defect Category 1 Defect.
II	1 Area not exceeding 0.5 square metres.
	2 Area exceeding 0.5 square metres but not exceeding 1.0 square metre.
	3 Area exceeding 1.0 square metre.

Temporary Repair of Carriageway Defect Category 1 Defect 81 The items for temporary repair of carriageway Defect Category 1 Defect shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage (a) removing all debris, loose material, water and road studs;
(b) drying;
(c) reinstatement with selected temporary repair material and compaction;
(d) shaping to cambers, falls and crowns;
(e) tack coat (as this series paragraph 24);
(f) disposal of material (as series 600 paragraph 39);

- (g) all of the above if the temporary repair fails before the permanent repair is completed.

After paragraph 81 add the following paragraphs 82 to 93 inclusive

Saw Cuts

- | | | |
|-------------|----|--|
| Units | 82 | The unit of measurement shall be |
| | | (i) saw cuts linear metre. |
| Measurement | 83 | The measurement of saw cuts shall be the sum of the lengths cut. |
| Itemisation | 84 | Separate items shall be provided for saw cuts in accordance with Chapter II paragraphs 3 and 4 and the following |

Group	Feature
I	1 Saw cuts.
II	1 Different depths.
III	1 Different materials.

Saw Cuts

- | | | |
|---------------|----|--|
| Item coverage | 85 | <p>The items for saw cuts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for</p> <p>(a) cleaning and brushing after saw cutting;</p> <p>(b) water supply;</p> <p>(c) removal of debris;</p> <p>(d) disposal of material (as Series 600 paragraph 39).</p> |
|---------------|----|--|

Overband Sealing

Units 86 The units of measurement shall be:

(i) overband sealing of cracks and joints in pavements
..... linear metre.

Itemisation 87 Separate items shall be provided for overband sealing of cracks and joints in pavements in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Overband sealing of cracks in pavements.
	2 Overband sealing of joints in pavements.

Overband Sealing of Cracks and Joints in Pavements 88 The items for overband sealing of cracks and joints in pavements shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for

Item coverage

(a) cleaning and drying of cracks and joints;

(b) filling and sealing of cracks and joints;

(c) removal of all debris and materials from cracks and joints;

(d) disposal of material (as Series 600 paragraph 39).

Pavement Reinforcement

Units 89 The units of measurement shall be

(i) pavement reinforcement..... square metre.

Measurement 90 The measurement of pavement reinforcement shall be the developed area of the reinforcement to the limits stated in the Works Order.

91 No deductions shall be made for openings of 1 square metre or less.

Itemisation 92 Separate items shall be provided for pavement reinforcement in accordance with Chapter II paragraphs 3 and 4 and the following

		Group	Feature
Pavement Reinforcement		I	1 Pavement reinforcement.
		II	1 Maximum strength.
	93	The items for pavement reinforcement shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for	
		(a)	cleaning, trimming, regulating and preparing surfaces;
		(b)	laps;
		(c)	measures to protect material;
		(d)	cutting, jointing, sealing and fixing;
		(e)	securing material in place;
		(f)	tensioning of reinforcement;
		(g)	tack coat (as this Series paragraph 24).

Series 1100 : Kerbs, Footways and Paved Areas

Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerb Blocks, and Linear Drainage Channel Systems

Units	1	Add the following sub paragraphs:	
		(ii)	quadrants,..... number;
		(iii)	extra over epoxy mortar beddinglinear metre
Itemisation	3	Add the following feature to Group I and new Groups IV & V	
		Group	Feature
		I	6 Quadrants.
		IV	1 In side slopes of cuttings and embankments.
		V	1 Extra over epoxy mortar bedding.
Item coverage	4	Delete sub-paragraphs (c) and (q) and substitute the following	
		(c)	not used;
		(q)	dropper kerbs and other special kerb units.
		Add the following paragraphs 4A to 4D after paragraph 4	
		Replace Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage, and Kerb Blocks, and Linear Drainage Channel Systems	
Units	4A	The unit of measurement shall be	
		(i)	replace kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, and linear drainage channel systems.....linear metre;
		(ii)	replace quadrantsnumber.
Measurement	4B	The measurement of replace kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, and linear drainage channel systems, shall be the lengths required by this Contract.	
		No deduction shall be made for gaps of 1 linear metre or less.	
		The measurement of replace quadrants shall be the number required by this Contract.	

Itemisation	4C	Separate items shall be provided for kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems and quadrants in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Replace kerbs or channels.
			2 Replace combined kerbs and channels.
			3 Replace edgings.
			4 Replace combined drainage and kerb blocks.
			5 Replace linear drainage channel systems.
			6 Replace quadrants.
		II	1 Permitted alternative materials and designs.
			2 Different materials and designs.
			3 Group reference.
		III	1 Straight or curved exceeding 12 metre radius.
			2 Curved not exceeding 12 metres radius.
Replace Kerbs, Channels, Edgings and Combined Drainage and Kerb Blocks, and Linear Drainage Channel Systems	4D	The items for replace kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems and quadrants shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage	(a)	trial mixes;	
	(b)	making good after sampling and testing;	
	(c)	excavation of acceptable material (as Series 600 paragraphs 17 and 18);	

- (d) excavation of unacceptable material (as Series 600 paragraph 19);
- (e) disposal of material (as Series 600 paragraph 39);
- (f) concrete (as Series 1700 paragraphs 5 and 10);
- (g) formwork (as Series 1700 paragraph 15);
- (h) reinforcement (as Series 1700 paragraph 26);
- (i) mixing materials and extruding kerbs;
- (j) bedding, jointing, including movement joints, filling and sealing of joints;
- (k) keying of surfaces and tack coats;
- (l) surface finishing, curing and protecting;
- (m) gratings, frames, bedding and seatings;
- (n) tie bars;
- (o) drainage holes or pipes through concrete;
- (p) edge support;
- (q) preservation of timber;
- (r) cutting;
- (s) drainage layer;
- (t) additional pavement material below channels;
- (u) backfilling and compaction;
- (v) special units and fittings;
- (w) connections to chambers;
- (x) in the case of combined drainage and kerb blocks – design, certificates, provision of data and drawings, re-submissions, modifications and amendments to the Works;
- (y) in the case of combined drainage and kerb blocks – internal checking and cleaning;
- (z) reinstatement of surfaces.

Additional Concrete for Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems

Item coverage In paragraph 8 delete subparagraph (c) and replace with

(c) not used.

Delete paragraphs 9 to 12 inclusive and substitute with the following paragraphs 9 to 12 inclusive:

Remove from Store or from where previously Set Aside and Relay Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems

Units 9 The unit of measurement shall be

(i) remove from store or from where previously set aside and relay kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks and linear drainage channel systems..... linear metre;

(ii) remove from store or from where previously set aside and relay quadrants number.

Measurement 10 The measurement for remove from store or from where previously set aside and relay kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks and linear drainage channel systems shall be the length required.

No deduction shall be made for gaps of 1 linear metre or less.

The measurement for remove from store or from where previously set aside and relay quadrants shall be the number required.

11 Separate items shall be provided for remove from store or from where previously set aside and relay kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems and quadrants in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature	
I	1	Remove from store and relay kerbs or channels.
	2	Remove from store and relay combined kerbs and channels.

		3	Remove from store and relay edgings.
		4	Remove from store and relay combined drainage and kerb blocks.
		5	Remove from store and relay linear drainage channel systems.
		6	Remove from store and relay quadrants.
		7	Remove from where previously set aside and relay kerbs or channels.
		8	Remove from where previously set aside and relay combined kerbs and channels.
		9	Remove from where previously set aside and relay edgings.
		10	Remove from where previously set aside and relay combined drainage and kerb blocks.
		11	Remove from where previously set aside linear drainage channel systems.
		12	Remove from where previously set aside and relay quadrants.
	II	1	Any size or type.
	III	1	Straight or curved exceeding 12 metres radius.
		2	Curved not exceeding 12 metres radius.
Remove from Store or from where previously Set Side and Relay Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems	12	The items for remove from store or from where previously set aside and relay kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems and quadrants shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	

- | | |
|---------------|--|
| Item coverage | <p>(a) loading, transporting from store or where previously set aside, unloading and positioning for relaying;</p> <p>(b) replacing items damaged during the foregoing operations;</p> <p>(c) modification and new materials;</p> <p>(d) kerbs, channels, edgings, combined kerbs and channels, combined drainage and kerb blocks, linear drainage channel systems and quadrants (as this Series paragraph 4).</p> |
|---------------|--|

Footways and Paved Areas

Delete heading and substitute the following heading

Footways, Paved Areas and Cycle Facilities

In paragraph 13 add the following unit of measurement

- | | |
|-------|--|
| Units | (iv) subbase regulating coursecubic metre. |
|-------|--|

Delete paragraph 14 and substitute the following

- | | |
|-------------|--|
| Measurement | <p>14 The measurement of footways, paved areas and cycle facilities shall be the area of the top surface of the works Ordered.</p> <p>No deduction shall be made for openings of 1 square metre or less.</p> |
|-------------|--|

- | | |
|----|---|
| 17 | <p>Insert after ‘precast concrete’, the words:</p> <p>‘artificial or natural’</p> |
|----|---|

Delete paragraph 18 and replace with the following paragraph:

- | | |
|----|---|
| 18 | <p>The measurement of bituminous, cement bound and sub-base regulating course in excess of that stated in the footways, paved areas or cycle facilities item description shall be the volume of material agreed with the Director based on a joint level survey of the formation prior to laying the regulating course.</p> |
|----|---|

Itemisation	Add the following to paragraph 20
-------------	-----------------------------------

Amend side heading to “Footways, Paved Areas and Cycle Facilities”

- | | |
|---------------|--|
| Item coverage | <p>21 in sub-paragraph (q) delete full stop and insert semi colon and add the following sub-paragraph</p> <p>(r) working round obstructions.</p> |
|---------------|--|

Item coverage 22 Add the following sub-paragraph

(b) sub-base (as Series 700 paragraph 5).

Delete paragraphs 23 to 26 inclusive and substitute the following paragraphs 23 to 26 inclusive

Remove from Store or from where previously Set Aside and Relay Paving Flags and Blocks

Units 23 The unit of measurement shall be

(i) remove from store or from where previously set aside and relay paving flags and blocks square metre.

Measurement 24 The measurement of remove from store or from where previously set aside and relay paving flags and blocks shall be the area of the top surface of the work.

No deduction shall be made for openings of 1 square metre or less.

25 Separate items shall be provided for remove from store or from where previously set aside and relay paving flags and blocks in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature	
I	1	Remove from store and relay paving in footways, paved areas or cycle facilities.
	2	Remove from where previously set aside and relay paving in footways, paved areas or cycle facilities.
II	1	Different types of construction.
III	1	Different thicknesses.
IV	1	Different sizes groups or types.

Remove from Store or from where previously Set Aside and Relay Paving Flags and Blocks

26 The items for remove from store and relay paving flags and blocks shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

- Item coverage
- (a) loading, transporting from store or from where previously set aside, unloading and positioning for relaying;
 - (b) replacing items damaged during the foregoing operations;
 - (c) modification and new materials.

footways and paved areas (as this Series paragraph 21).

Steps

Delete heading and substitute the following heading:

Access Steps

Delete paragraph 27 and substitute the following:

- Units 27 The unit of measurement shall be:
- (i) Access steps to feeder pillars, communication cabinets, traffic counter cabinets, ice sensor installations and the like linear metre.

Delete paragraph 28 and substitute the following:

- Measurement 28 The measurement of access steps shall be the complete flight including landings and shall be measured along the combined slope length of the steps and the plan length of all integral landings.

Delete paragraph 29 and substitute the following

- Itemisation 29 Separate items shall be provided for access steps in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature	
I	1	Access Steps.
II	1	To feeder pillars, communications cabinets, traffic counter cabinets, ice sensor installations and the like.
III	1	Constructed on embankment side slopes.
	2	Constructed on cutting side slopes.

Amendment to paragraph 30.

Amend side heading to ‘Access Steps’

Insert ‘access’ after the words ‘The items for...’

Item coverage

Delete sub paragraph (c) and substitute the following:

(c) not used.

After paragraph 30 add the following paragraphs 31 to 41 inclusive

Cold Milling (Planing)

31 The units, measurement, itemisation and item coverage for cold milling (planing) shall be as Series 700 paragraphs 25 to 28 inclusive.

Reinstatement of Paved Areas

32 The units, measurement, itemisation and item coverage for reinstatement of paved areas shall be as Series 700 paragraphs 33 to 36 inclusive.

Patching

Definition

33 Patching covers the replacement of surfacing materials in any number of individual areas of any size.

Units

34 The unit of measurement shall be
patching,..... square metre.

Measurement

35 The measurement of patching shall be the area of the top surface of the patch.

Where several patches are Ordered together the measurement shall be the summated area of all the patches.

Itemisation

36 Separate items shall be provided for patching in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature	
I	1	Patching in existing surfacing.
II	1	Base.
	2	Binder course.
	3	Surface course.

		III	1	Different thickness.
		IV	1	Different materials.
Patching	37	The items for patching shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	excavation (as Series 600 paragraphs 17, 18, 19 and 23);	
		(b)	breaking out each course of existing pavement to defined depths and lines, stepped back between successive courses;	
		(c)	milling (as this Series paragraph 28);	
		(d)	disposal of material (as Series 600 paragraph 39);	
		(e)	trimming and protecting vertical edges;	
		(f)	making good up to adjacent courses, cleaning and painting with bitumen;	
		(g)	temporary and permanent reinstatement (as this Series paragraph 9);	
		(h)	tack coat (as this Series paragraph 24);	
		(i)	all of the above if the patching fails within 12 months.	
Excavation in Hard Material				
Units	38	The units of measurement shall be		
		(i)	extra over excavation for excavation in Hard Material in kerbs, footways and paved areas cubic metre.	
Measurement	39	The measurement shall be the volume of the voids formed by the removal of the Hard Material.		
Itemisation	40	Separate items shall be provided for extra over excavation for excavation in Hard Material in kerbs, footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Extra over excavation for excavation in Hard Material in kerbs, footways and paved areas.

**Extra Over
Excavation for
Excavation in
Hard Material**

41 The items for extra over excavation for excavation in Hard Material in kerbs, footways and paved areas shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage (a) Excavation in Hard Material (as Series 600 paragraph 23).

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Series 1200 : Traffic Signs and Road Markings

Traffic Signs Faces

Delete paragraph 1 to 5 and substitute the following paragraphs 1 to 5P inclusive:

Units	1	The unit of measurement shall be		
	(i)	traffic	sign	faces.....square metre.
Measurement	2	The measurement of traffic sign faces shall be the surface area of the sign.		
Itemisation	3	Separate items shall be provided for traffic signs faces in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Permanent traffic sign faces.
		II	1	Retroreflective.
			2	Non-retroreflective.
			3	Enhanced retroreflective.
			4	Extra over for dew resistant sheeting.
		III	1	Sign face not exceeding 0.50 square metres in area.
			2	Sign face exceeding 0.5 but not exceeding 1.0 square metres in area.
			3	Sign face exceeding 1.0 but not exceeding 2.0 square metres in area.
			4	Sign face exceeding 2.0 but not exceeding 5.0 square metres in area.
			5	Sign face exceeding 5.0 but not exceeding 10.0 square metres in area.

		6	Sign face exceeding 10.0 but not exceeding 20.0 square metres in area.
		7	Sign face exceeding 20.0 square metres in area.
Traffic Sign faces	4	The items for traffic sign faces shall in accordance with the Preambles to Bill of Quantities General Directions include for	
Item coverage		Covering and removal of coverings of signs	
		(a)	location lettering and marking;
		(b)	drilling or forming holes and pockets in Structures or lighting columns and casting in bolts, sockets and anchorage assemblies;
		(c)	rivets, bolts nuts and the like;
		(d)	purlins and fixings;
		(e)	protective treatment;
		(f)	notices and recording;
		(g)	preparation and supply of record drawings;
		(h)	fixing to Structures including attachment systems and additional materials for hinges.
		Traffic Sign Posts	
Units	5	The unit of measurement shall be:	
		(i)	traffic sign posts linear metre;
		(ii)	Extra over for electrical housingnumber.
Measurement	5A	The measurement of traffic sign posts shall be the complete installation.	
Itemisation	5B	Separate items shall be provided for traffic sign posts in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Traffic sign posts.
		II	1 Different sizes.

Traffic Sign Posts

5C

The items for traffic sign posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) location lettering and marking;
- (b) electrical equipment, wiring, and connections, excluding supply and control cable;
- (c) conduit including screwed and threaded connections, bends, tees and the like draw wires;
- (d) backboard, fixing, protective caps, sealing, grommets, spacers, mounting plates and strips;
- (e) doors, locks and keys;
- (f) drilling or forming holes and pockets in Structures or foundations and casting in bolts sockets base plates and anchorage assemblies;
- (g) cutting post to length;
- (h) bedding and grouting;
- (i) protective system (as Series 1900 paragraph 4);
- (j) identification numbers;
- (k) threading cable through ducts sleeves, conduit and the like;
- (l) complying with wiring regulations, earthing (other than earth electrodes);
- (m) protective treatment;
- (n) notices and recording;
- (o) preparation and supply of record drawings.

Traffic Sign Bases

Units

5D

The unit of measurement shall be

- (i) standard sign basesnumber;
- (ii) Non standard traffic sign bases.....cubic metres.

Measurement	5E	The measurement of traffic sign bases shall be the complete installation.		
Itemisation	5F	Separate items shall be provided for traffic sign posts in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Traffic sign posts.
		II	1	Different cross sectional areas.
		III	1	Different lengths.
Traffic Sign Bases	5G	The items for traffic sign bases shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	excavation of acceptable material (as Series 600 paragraphs 17 and 18);	
		(b)	excavation of unacceptable material (as Series 600 paragraph 19);	
		(c)	backfilling and compaction;	
		(d)	in situ concrete (as Series 1700 paragraph 5);	
		(e)	formwork (as Series 1700 paragraph 15);	
		(f)	reinforcement (as Series 1700 paragraph 26);	
		(g)	ducts and sleeves in bases;	
		(h)	reinstatement of surfaces;	
		(i)	disposal of material (as Series 600 paragraph 39);	
		(j)	preparation and supply of record drawings.	

Sign Lighting Units

Units	5H	The unit of measurement shall be: (i) sign lighting units..... number.
Measurement	5J	The measurement for sign lighting units shall be of the complete installation.

		The measurement of traffic sign lighting units shall be the complete installation except for earth electrodes which shall be measured separately under Series 1400 (paragraphs 24 to 27).	
Itemisation	5K	Separate items shall be provided for sign lighting units in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Sign lighting units.
		II	1 Different types.
		III	1 Mounting height not exceeding 2 metres.
			2 Mounting height exceeding 2 metres but not exceeding 4 metres.
			3 Mounting height exceeding 4 metres but not exceeding 6 metres.
			4 Mounting height exceeding 6 metres but not exceeding 8 metres.
Sign Lighting Units	5L	The items for sign lighting units shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	electrical equipment, wiring, and connections, excluding supply and control cable;
		(b)	conduit including screwed and threaded connections, bends, tees and the like draw wires;
		(c)	threading cable through ducts, sleeves, conduit and the like;
		(d)	complying with wiring regulations, earthing (other than earth electrodes), and inspection;
		(e)	earth block and earthing of sign post and equipment;
		(f)	light spill screens.

Sign Bracket Arms

Units	5M	The unit of measurement shall be:		
		(i) sign bracket arms number.		
Measurement	5N	The measurement for sign bracket arms shall be of the complete installation.		
Itemisation	5O	Separate items shall be provided for sign bracket arms in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Sign bracket arms.
		II	1	Different types.
		III	1	Mounting height not exceeding 2 metres.
			2	Mounting height exceeding 2 metres but not exceeding 4 metres.
			3	Mounting height exceeding 4 metres.
Sign Bracket Arms	5P	The items for sign bracket arms shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	earthing of sign post and equipment;	
		(b)	fixtures and fittings;	
		(c)	protective system (as Series 1900 paragraph 4);	
		(d)	threading cable through ducts sleeves, conduit and the like.	
		Delete paragraphs 6 to 8 inclusive and substitute the following paragraphs 6 to 8 inclusive:		
		Remove from Store or from where previously Set Aside and Re-erect Traffic Sign Faces, Traffic Sign Posts, Sign Lighting Units, Sign Bracket Arms		

Units	6	The unit of measurement shall be
	(i)	remove from store or from where previously set aside and re erect traffic sign faces number;
	(ii)	remove from store or from where previously set aside and re-erect traffic sign posts linear metre;
	(iii)	remove from store or from where previously set aside and re-erect sign lighting units number;
	(iv)	remove from store or from where previously set aside and re-erect bracket arms number.

Itemisation	7	Separate items shall be provided for remove from store or from where previously set aside and re-erect traffic sign faces, traffic sign posts, sign lighting units, sign bracket arms in accordance with Chapter II paragraph 3 and 4 and the following
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Group	Feature
I	1 Remove from store and re-erect.
	2 Remove from where previously set aside and re-erect.
II	1 Traffic sign face.
	2 Traffic sign post.
	3 Sign lighting unit.
	4 Bracket arm.
III	1 Different types.
IV	1 Sign face not exceeding 0.50 square metres in area.
	2 Sign face exceeding 0.5 but not exceeding 1.0 square metres in area.
	3 Sign face exceeding 1.0 but not exceeding 2.0 square metres in area.

	4	Sign face exceeding 2.0 but not exceeding 5.0 square metres in area.
	5	Sign face exceeding 5.0 but not exceeding 10.0 square metres in area
	6	Sign face exceeding 10.0 but not exceeding 20.0 square metres in area.
	7	Sign face exceeding 20.0 square metres in area.
	V	1 Different cross sectional areas.
	VI	1 Mounting height not exceeding 2 metres.
		2 Mounting height exceeding 2 metres but not exceeding 4 metres.
		3 Mounting height exceeding 4 metres.
Remove from Store or from where previously Set Aside and Re-erect Traffic Sign Faces, Traffic Sign Posts, Sign Lighting Units, Sign Bracket Arms	8	The items for remove from store or from where previously set aside and re-erect traffic sign faces, traffic sign posts, sign lighting units,, sign bracket arms shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage	(a)	loading, transporting from store or where previously set aside, unloading and positioning for re-erection;
	(b)	replacing items damaged during the foregoing operations;
	(c)	modification and new materials;
	(d)	painting existing painted items;
	(e)	traffic signs faces (as this Series paragraph 4);
	(f)	traffic signs posts (as this Series paragraph 5C);

- (g) sign lighting units(as this Series paragraph 5L);
- (h) sign bracket arms (as this Series paragraph 5P).

Road Markings

Delete paragraph 9 and substitute the following paragraph 9

Units	9	The unit of measurement shall be
	(i)	marking of solid areassquare metre;
	(ii)	marking of lines.....linear metre;
	(iii)	marking of triangles, circles, circles with enclosing arrows, arrows, kerb markings, symbols, nodes, letters and numerals.....number;
	(iv)	adjustment for yellow thermoplastic screed and white thermoplastic spray (measured extra over)percentage;
	(v)	removal of solid areas, lines, triangles, circles, circles with enclosing arrows, arrows, kerb markings, symbols, letters and numeralssquare metre.

Measurement Delete the following from the second paragraph of paragraph 11
'but the length of the mark and gap shall be stated'.

Add the following paragraph 15A.

- 15A For the removal of lines, the colour and width of line shall not be stated and in the case of intermittent lines the measurement shall be of the marks to be removed only.
- For the removal of circles, circles with enclosing arrows and symbols, the size shall not be stated.
- For the removal of arrows and kerb markings the length shall not be stated.
- For the removal of letters and numerals the height shall not be stated.

Itemisation

In paragraph 16 delete Group V Feature 2.

Road Studs

Add the following units to paragraph 19

- (ii) road stud cylinders.....number;
- (iii) replace rubber pads.....number.

Add the following Group I features to paragraph 21.

Group	Features
I	2 Cylinders.
	3 Replace rubber pads.

Road Studs

Amend paragraph 22 as follows

Item coverage

- (e) delete full stop and insert semi colon.

Add the following:

- (f) surface preparation;
- (g) cleaning out existing sockets.

Delete paragraphs 23 to 25 inclusive and substitute the following paragraphs 23 to 25 inclusive:

Remove from Store or from where previously Set Aside and Re-install Reflecting Road Studs

Units

- 23 The unit of measurement shall be
 - (i) remove from store or from where previously set aside and re-install reflecting road studs number.

Itemisation

- 24 Separate items shall be provided for remove from store or from where previously set aside and re-install reflecting road studs in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Remove from store and re-install reflecting road studs.

		2	Remove from where previously set aside and re-install reflecting road studs.	
		II	1	Different sizes.
		III	1	Different types.
Remove from Store or from where previously Set Aside and Re-install Reflecting Road Studs	25	The items for remove from store or from where previously set aside and re-install reflecting road studs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	loading, transporting from store or where previously set aside, unloading and positioning for re-installation;	
		(b)	replacing items damaged during the foregoing operations;	
		(c)	new materials;	
		(d)	reflecting road studs (as this Series paragraph 22).	

Marker Posts

Marker Posts	39	Amend item coverage as follows
Item coverage		Delete sub paragraph (c) and substitute the following
		(c) driving or excavating in acceptable material and driving or excavating in unacceptable material (as Series 600 paragraphs 17, 18 and 19).

Permanent Bollards

Units	40	Add the following sub paragraphs
		(i) Renew permanent bollard shell number;
		(ii) Re-fix existing permanent bollard shell number.

Itemisation	41	Delete Group I and add the following:		
		Group	Feature	
		I	1	Permanent bollard.
			2	Renew permanent bollard shell.
			3	Refix existing permanent bollard shell.
Permanent Bollards	42	Delete sub paragraph (a) and (b) and substitute the following		
Item coverage		(i)	in the case of permanent bollard;	
		(a)	traffic signs faces (as this Series, paragraph 4);	
		(b)	traffic signs posts (as this Series, paragraph 5C);	
		(c)	traffic signs bases (as this Series, paragraph 5G);	
		(d)	preservation treatment of timber;	
		(ii)	in the case of renew permanent bollard shell;	
		(a)	take up or down existing bollard shell and remove to tip off Unit (as Series 200 paragraph 11);	
		(b)	traffic signs faces (as this Series, paragraph 4);	
		(c)	traffic signs posts (as this Series, paragraph 5C);	
		(d)	traffic signs bases (as this Series, paragraph 5G);	
		(iii)	in the case of re-fix existing permanent bollard shell;	
		(a)	re-tightening existing fixing;	
		(b)	re-positioning;	
		(c)	supply of fixing pegs, nuts, bolts etc.	

After paragraph 42 add the following paragraphs 42A to 42C

Remove from Store or from where previously Set Aside and Re-erect Bollards

Units	42A	The unit of measurement shall be	
	(i)	remove from store or from where previously set aside and re-erect bollards number.	
Itemisation	42B	Separate items shall be provided for remove from store or from where previously set aside and re-erect bollards in accordance with Chapter II paragraph 3 and 4 and the following	
		Group	Feature
		I	1 Remove from store and re-erect.
			2 Remove from where previously set aside and re-erect.
		II	1 Bollards.
		III	1 Internally illuminated.
			2 Non illuminated.
		IV	1 Different types.
Remove from Store or from where previously Set Aside and Re-erect Bollards	42C	The items for remove from store or from where previously set aside and re-erect bollards shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage	(a)	loading, transporting from store or where previously set aside, unloading and positioning for re-erection;	
	(b)	replacing items damaged during the foregoing operations;	
	(c)	modification and new materials;	
	(d)	painting existing painted items;	
	(e)	traffic signs faces (as this Series, paragraph 4);	
	(f)	traffic signs posts (as this Series, paragraph 5C);	
	(g)	traffic signs bases (as this Series, paragraph 5G).	

After paragraph 45 add the following paragraphs 46 to 53.

Numbering of Traffic Signs

Units	46	The units of measurement shall be		
		(i)	Numbering of traffic signsnumber.	
Measurement	47	The measurement of numbering of traffic signs shall be for the complete installation.		
Itemisation	48	Separate items shall be provided for numbering of traffic signs in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Numbering.
		II	1	Traffic Signs.
Numbering of Traffic Signs	49	The item for numbering of traffic signs shall in accordance with the Preamble to the Schedule of Rates and Prices General Directions include for		
Item Coverage		(a)	preparing surface;	
		(b)	removing old number;	
		(c)	marking and lettering;	
		(d)	records;	
		(e)	reports.	

Excavation in Hard Material

Units	50	The unit of measurement shall be: (i) extra over excavation for excavation in Hard Material in traffic signs cubic metre.
Measurement	51	The measurement shall be the volume of the voids formed by the removal of the Hard Material.
Itemisation	52	Separate items shall be provided for extra over excavation for excavation in Hard Material in traffic signs in accordance with Chapter II paragraphs 3 and 4 and the following
<hr/>		
	Group	Feature

		I	1	Extra over excavation for excavation in Hard Material in traffic signs.
Extra Over Excavation for Excavation in Hard Material in Traffic Signs	53	The items for extra over excavation for excavation in Hard Material in traffic signs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	excavation in Hard Material (as Series 600, paragraph 23).	

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**Series 1300 : Road Lighting Columns and Brackets, CCTV
Masts and Cantilever Masts**

**Road Lighting Columns and Brackets, Wall Mountings, CCTV
Masts and Cantilever Masts**

Delete paragraphs 2 and 3, and substitute the following paragraphs 2 and 3.

- Measurement**
- 2 The measurement of road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts shall be the complete installation except for
- (i) earth electrodes which shall be measured separately (under Series 1400 paragraphs 24 to 27);
 - (ii) earth equipotential bonding which shall be measured separately (under Series 1400 paragraphs 37 to 40);
 - (iii) luminaires which shall be measured separately (under this Series paragraphs 9 to 12).

- Itemisation**
- 3 Separate items shall be provided for road lighting columns and brackets, wall mountings CCTV masts and cantilever masts in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature	
I	1	Road lighting columns and brackets.
	2	Wall mountings.
	3	CCTV masts.
	4	Cantilever masts
II	1	Construction.
III	1	Not exceeding 10 metres nominal height.
	2	Exceeding 10 metres but not exceeding 15 metres nominal height.
	3	Exceeding 15 metres but not exceeding 20 metres nominal height.
IV	1	Single bracket arm.
	2	Double bracket arm.

	V	1	Bracket projection not exceeding 1.5 metres.
		2	Bracket projection exceeding 1.5 metres not exceeding 2.5 metres.
		3	Bracket projection exceeding 2.5 metres.
	VI	1	Types of base.
Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts	4	Delete sub paragraph (i) and substitute the following	
Item coverage	(i)	not used.	
		Delete paragraphs 5 to 7 inclusive and substitute the following paragraphs 5 to 21 inclusive	
		Remove from Store or from where previously Set Aside and Re-erect Road Lighting Columns and Brackets, Wall Mountings, CCTV Masts and Cantilever Masts	
Units	5	The unit of measurement shall be	
	(i)	remove from store or from where previously set aside and re-erect road lighting columns and brackets, wall mountings CCTV masts and cantilever masts number.	
Measurement	6	The measurement of remove from store or from where previously set aside and re-erect road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts shall be the complete installation except for	
	(i)	earth electrodes which shall be measured separately (under Series 1400 paragraphs 24 to 27);	
	(ii)	earth equipotential bonding which shall be measured separately (under Series 1400 paragraphs 37 to 40).	
Itemisation	7	Separate items shall be provided for remove from store or from where previously set aside and re-erect road lighting columns and brackets, wall mountings CCTV masts and cantilever masts in accordance with Chapter II paragraphs 3 and 4 and the following	

		Group	Feature
	I	1	Remove from store and re-erect road lighting columns and brackets.
		2	Remove from store and re-erect wall mountings.
		3	Remove from store and re-erect CCTV masts.
		4	Remove from store and re-erect cantilever masts.
		5	Remove from where previously set aside and re-erect road lighting columns and brackets.
		6	Remove from where previously set aside and re-erect wall mountings.
		7	Remove from where previously set aside and re-erect CCTV masts.
		8	Remove from where previously set aside and re-erect cantilever masts.
	II	1	Not exceeding 10m nominal height.
		2	Exceeding 10m but not exceeding 15 metres nominal height.
		3	Exceeding 15metres but not exceeding 20 metres nominal height.
	III	1	Single or double bracket arm.
		IV	1
	V	1	Different types of bases.
		8	The items for remove from store or from where previously set aside and re-erect road lighting columns, brackets and wall mountings, CCTV masts and cantilever masts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

- Item coverage
- (a) loading, transporting from store or from where previously set aside, unloading and positioning for re-erection;
 - (b) replacing items damaged during the foregoing operation;
 - (c) modification and new materials;
 - (d) painting existing painted items;
 - (e) road lighting columns and brackets wall mountings, CCTV masts and cantilever masts (as this Series paragraph 4).

After paragraph 8 add the following paragraphs 9 to 25 inclusive

Luminaires, Renew Luminaires

- | | | |
|-------------|-----|---|
| Units | 9 | The units of measurement shall be: |
| | (i) | luminaires, renew luminaires..... number. |
| Measurement | 10 | The measurement of luminaires shall be the complete installation. |
| Itemisation | 11 | Separate items shall be provided for luminaires, in accordance with Chapter II paragraphs 3 and 4 and the following |
- | Group | Feature | |
|-------|---------|-------------------------------------|
| I | 1 | Luminaires. |
| | 2 | Renew luminaires. |
| II | 1 | Different types. |
| III | 1 | Different location of control gear. |
- | | | |
|-------------------|-----|---|
| Luminaires | 12 | The items for luminaires, shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for |
| Item coverage | (a) | fitting luminaire to bracket arm; |
| | (b) | electrical equipment, wiring and making connections, excluding network cabling; |
| | (c) | wiring from lighting unit to cut-out; |

- (d) conduit including draw wires, screwed and threaded connections, bends, tees, and the like;
- (e) threading cable through ducts sleeves, conduit and the like;
- (f) fixings, protective caps, sealing grommets, spacers, mountings, plates and strips;
- (g) notices, recording and preparation and supply of record drawings;
- (h) complying with Wiring Regulations, earthing (other than earth electrodes);
- (i) complying with required lighting levels of all Scheme designs.

Renew Luminaires	13	<p>The items for renew luminaires shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for</p> <ul style="list-style-type: none"> (a) disconnecting and removing existing wiring from lighting unit to cut-out; (b) removing luminaires from bracket arm; (c) fitting new luminaire to bracket arm; (d) take up or down luminaires and remove to licensed disposal facility (as Series 200 paragraph 11); (e) loading, transporting from store, unloading and positioning for erection; (f) conduit including draw wires, screwed and threaded connections, bends, tees, and the like; (g) threading cable through ducts sleeves, conduit and the like; (h) fixings, protective caps, sealing grommets, spacers, mountings, plates and strips; (i) notices, recording and preparation and supply of record drawings; (j) electrical equipment, wiring, making connections, excluding network cabling; (k) earth block;
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- (l) earthing of column and equipment;
- (m) complying with Wiring Regulations, earthing (other than earth electrodes);
- (n) modification and new materials;
- (o) complying with required lighting levels of all Scheme designs;
- (p) matching the physical appearance and lighting levels replaced luminaries.

Numbering of Road Lighting Columns

Units	14	The units of measurement shall be		
		Numbering of road lighting columnsnumber		
Measurement	15	The measurement of numbering of road lighting columns shall be for the complete installation;		
Itemisation	16	Separate items shall be provided for numbering of road lighting columns in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Numbering
		II	1	Road lighting columns
Numbering of Road Lighting Columns	17	The item for numbering of road lighting columns shall in accordance with the Preamble to the Schedule of Rates and Prices General Directions include for		
Item Coverage		(a)	preparing surface (as Series 5000 paragraph 5);	
		(b)	removing old number;	
		(c)	making good protective system (as Series 5000 paragraph 6);	
		(d)	marking and lettering;	
		(e)	records;	
		(f)	reports.	

Excavation in Hard Material

Units	18	The unit of measurement shall be
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		(i)	extra over excavation for excavation in Hard Material for any item of road lighting column, CCTV masts and cantilever mast works..... cubic metre.
Measurement	19		The measurement shall be the volume of the voids formed by the removal of the Hard Material.
Itemisation	20		Separate items shall be provided for extra over excavation for excavation in Hard Material for any item of road lighting column, CCTV masts and cantilever mast works in accordance with Chapter II, paragraphs 3 and 4 and the following
		Group	Feature
		I	1 Extra over excavation for excavation in Hard Material for any item of road lighting column, CCTV masts and cantilever mast works.
Extra Over Excavation for Excavation in Hard Material for Any Item of Road Lighting Column Works	21		The items for extra over excavation for excavation in hard material for any item of road lighting column, CCTV masts and cantilever mast works shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		(a)	excavation in Hard Material (as Series 600 paragraph 23).

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Series 1400 : Electrical Work for Road Lighting and Traffic Signs

Trench for Cable or Duct

In paragraph 7 delete Group III and substitute the following:

Group	Feature
III	1 Trench depth exceeding 450mm but not exceeding 600mm.
	2 Trench depth exceeding 600mm but not exceeding 900mm and so on in steps of 300mm.

Trench for Cable or Duct

In paragraph 8 delete sub paragraph (c) and substitute the following:

Item coverage (c) not used.

Delete paragraphs 16 to 19 inclusive and substitute the following paragraphs 16 to 19 inclusive:

Cable Joints, Terminations and Renew Terminations

Units	16	The unit of measurement shall be
	(i)	cable joints, terminations, renew terminations number.
Measurement	17	Cable joints shall be measured only where they are specifically required.
		Cable joints in running lengths shall not be measured.
		The measurement for terminations and renew terminations shall be for the complete operation.
Itemisation	18	Separate items shall be provided for cable joints, terminations and renew terminations in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Cable joints.
	2 Terminations.
	3 Renew terminations.

		II	1	Different types.
		III	1	Different sizes.
Cable Joints, Cable Terminations and Renew Terminations	19	The items for cable joints, terminations and renew terminations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(i)	in case of cable joint or termination;	
		(a)	preparing, stripping and cleaning ends;	
		(b)	connectors, glands, clamps, sleeves, cleats, tags and terminal blocks;	
		(c)	connecting conductors to terminals;	
		(d)	removing "knock outs" and drilling backboard;	
		(e)	insulating ends of unused conductors;	
		(f)	bonding;	
		(g)	jointing kits;	
		(h)	numbering and lettering;	
		(i)	complying with wiring regulations and earthing (other than earth electrodes);	
		(j)	protection, curing and support of cable joints and keeping the cable joint free of moisture;	
		(k)	markers;	
		(l)	additional excavation of acceptable material (as Series 600 paragraphs 17 and 18);	
		(m)	additional excavation of unacceptable material (as Series 600 paragraph 19);	
		(n)	disposal of material (as Series 600 paragraph 39);	
		(o)	links and jumper leads;	
		(p)	building out;	
		(q)	site records;	
		(r)	phase labelling;	

- (s) temporary sealing of cable ends;
- (t) isolation.
- (ii) in case of renew termination;
 - (a) disconnection of cables (as this Series paragraph 36);
 - (b) cable joints and termination (as this Series paragraph 19 (i)).

Feeder Pillars

Feeder Pillars

22 Delete sub paragraph (c) and substitute the following

Item coverage (c) not used.

Earth Electrodes

Earth Electrodes

27 Delete sub paragraph (c) and substitute the following:

Item coverage (c) not used.

After paragraph 32 add the following paragraphs 33 to 51 inclusive.

Disconnection of Cables

Units 33 The unit of measurement shall be:

(i) disconnection of cables number.

Measurement 34 The measurement for disconnection of cables from equipment shall be for the complete operation.

Itemisation 35 Separate items shall be provided for disconnection of cables in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Disconnection of cables.
II	1 Permanent.
	2 Temporary.
III	1 Different types.
IV	1 Different sizes.

Disconnection of Cables	36	The items for disconnection of cables shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		<ul style="list-style-type: none"> (a) excavation of acceptable material (as Series 600 paragraphs 17 and 18); (b) excavation of unacceptable material (as Series 600 paragraph 19); (c) backfilling, compaction and making good of the surface; (d) disposal of materials (as Series 600 paragraph 39); (e) locating, working around and supporting pipes, cables, services, apparatus and the like; (f) isolating cables at feeder pillar; (g) disconnecting cables from termination unit and withdrawing of cable from equipment; (h) temporary sealing of cable ends; (i) permanent sealing of cable ends; (j) cleaning trimming, taping, sealing and capping including clamps; (k) complying with IEE wiring regulations; (l) reconnect at feeder pillar; (m) loading, transporting from store unloading and positioning of materials for erection; (n) replacing items damaged during operations in (l) above; (o) take up or down termination unit and remove to tip off Unit (as Series 200 paragraph 11); (p) providing new site records and updating existing site records; (q) reports; (r) reinstatement of surfaces.

Equipotential Bonding

Units	37	The units of measurement shall be	
		(i)	earth pits and rods number;
		(ii)	additional earth rods number;
		(iii)	additional earth conductors linear metre.
Measurement	38	The measurement of earth conductors shall be the summation of the distance along the centre line of the route between the earth pit and the column earth block.	
		The measurement of earth conductors shall include the terminations to the earth rods and column earth blocks.	
Itemisation	39	Separate items shall be provided for equipotential bonding in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Equipotential bonding.
		II	1 Earth pits and rods.
			2 Additional earth conductors.
			3 Additional earth rods.
Equipotential Bonding	40	The items for equipotential bonding shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	trench for cable or duct (as this Series, paragraph 8);
		(b)	intermediate supports and fixing devices where cables leave trench and prior to entry into equipment;
		(c)	twisting and snaking;
		(d)	preparing, stripping and cleaning ends;
		(e)	glands and clamps;
		(f)	driving;
		(g)	clamps, cables and making connections;
		(h)	covers frames seating and bedding;

- (i) earth rods including pressure plates, glands and clamps;
- (j) conduit including draw wires, all purpose made screwed and threaded connections, bends, tees and the like;
- (k) threading cable through ducts, sleeves, conduit and the like;
- (l) conductor cable including preparing, stripping and cleaning ends and connections;
- (m) markers, notices, recording and reports;
- (n) preparation and supply of record drawings.

Temporary Overhead Feed to Road Lighting Units

Units	41	The unit of measurement shall be		
		(i)	temporary overhead feed to road lighting units linear metre.	
Measurement	42	The measurement of temporary overhead feed to road lighting units shall be the distance between supports.		
Itemisation	43	Separate items shall be provided for temporary overhead feed to road lighting units in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Temporary overhead feed to road lighting units.
		II	1	Not exceeding 10 metres nominal height.
			2	10 metres to 15 metres nominal height.
			3	Exceeding 15 metres nominal height.
Temporary Overhead Feed to Road Lighting Units	44	The items for temporary overhead feed to road lighting units shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	fixing brackets and supports;	
		(b)	catenary wire;	

- (c) replacement of faulty fuses;
- (d) fit wiring;
- (e) connectors, glands, clamps, sleeves, cleats, tags, terminal blocks;
- (f) connecting conductors to terminals, removing knock-outs and drilling backboard, insulating ends of unused conductors, bonding, numbering and lettering, removal of temporary supply;
- (g) markers;
- (h) complying with wiring regulations, earthing (other than earth electrodes);
- (i) site records and reports;
- (j) disconnection of cables (as this Series paragraph 36).

Excavation in Hard Material

Units	45	The unit of measurement shall be
	(i)	extra over excavation for excavation in Hard Material for any item of electrical works, for road lighting and traffic signs cubic metre.
Measurement	46	The measurement shall be the volume of the voids formed by the removal of the Hard Material.
Itemisation	47	Separate items shall be provided for extra over excavation for excavation in Hard Material in electrical works in accordance with Chapter II paragraphs 3 and 4 and the following
<hr/>		
	Group	Feature
	I	1 Extra over excavation for excavation in Hard Material for any item of electrical works, for road lighting and traffic signs.
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Extra Over Excavation for Excavation in Hard Material for Any Item of Electrical Works, for Road Lighting and Traffic Signs	48	The items for extra over excavation for excavation in Hard Material for any item of electrical works, for road lighting and traffic signs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage	(a)	Excavation in Hard Material (as Series 600 paragraph 23).		
		Remove from Store or from where previously Set Aside and Re-erect Feeder Pillars		
Units	49	The unit of measurement shall be:		
	(i)	remove from store or from where previously set aside and re-erect feeder pillars number.		
Itemisation	50	Separate items shall be provided for remove from store or from where previously set aside and re-erect feeder pillars in accordance with Chapter II paragraph 3 and 4 and the following		
		Group	Feature	
		I	1	Remove from store and re-erect.
			2	Remove from where previously set aside and re-erect.
		II	1	Feeder pillars.
Remove from Store or from where previously Set Aside and Re-Erect Feeder Pillars	51	The items for remove from store or from where previously set aside and re-erect feeder pillars shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage	(a)	excavation of acceptable material (as Series 600 paragraphs 17 and 18);		
	(b)	excavation of unacceptable material (as Series 600 paragraph 19);		
	(c)	backfilling and compaction;		
	(d)	in situ concrete (as Series 1700 paragraph 5);		
	(e)	formwork (as Series 1700 paragraph 15);		

- (f) reinforcement (as Series 1700 paragraph 26);
- (g) ducts in bases;
- (h) reinstatement of surfaces;
- (i) covering and removal of covering of signs;
- (j) disposal of material (as Series 600 paragraph 39);
- (k) doors, locks and keys;
- (l) location lettering and marking;
- (m) drilling or forming holes and pockets in Structures, lighting columns or foundations and casting in bolts, sockets, base plates and anchorage assemblies;
- (n) bedding and grouting;
- (o) rivets, bolts, nuts and the like;
- (p) electrical equipment, wiring, and connections, excluding network cabling;
- (q) conduit including screwed and threaded connections, bends, tees, and the like and draw wires;
- (r) threading cable through ducts sleeves, conduit and the like;
- (s) backboard, fixings, protective caps, sealing, grommets, spacers, mounting plates and strips;
- (t) complying with wiring regulations, earthing (other than earth electrodes), and inspection;
- (u) notices and recording;
- (v) preparation and supply of record drawings;
- (w) loading, transporting from store or where previously set aside, unloading and positioning for re-erection;
- (x) replacing items damaged during the foregoing operation;

- (y) modification and new materials;
- (z) making good protective / painted systems (as Series 5000 paragraph 5).

Series 1700 : Structural Concrete

Structural Concrete Repairs

Add new paragraphs 40 to 49 inclusive.

Units	<p>40 The units of measurement shall be</p> <ul style="list-style-type: none"> (i) structural concrete repairs using normal flow concrete and high flow repair concrete cubic metre; (ii) structural concrete repairs using proprietary sprayed concrete square metre; (iii) structural concrete repairs using proprietary repair mortars litre; (iv) crack injection using proprietary resinslitre; (v) extra over for removal of concrete by high pressure water jettingcubic metre. 								
Measurement	<p>41 Measurement of structural concrete repairs shall be the volume of the void to be filled with repair mortar resin or concrete.</p> <p>Measurement of extra over structural concrete repairs for removal of concrete by high pressure water jetting shall be the volume of the void to be filled with repair mortar resin or concrete removed by such means.</p> <p>Extra over structural concrete repairs for removal of concrete by high pressure water jetting shall only be measured with the prior approval of the Director.</p>								
Itemisation	<p>42 Separate items shall be provided for structural concrete repairs in accordance with Chapter II paragraphs 3 and 4 and the following</p> <table border="1" data-bbox="582 1668 1404 2004"> <thead> <tr> <th data-bbox="606 1680 694 1718">Group</th><th data-bbox="766 1680 861 1718">Feature</th></tr> </thead> <tbody> <tr> <td data-bbox="606 1747 630 1785">I</td><td data-bbox="766 1747 1228 1785">1 Structural concrete repairs.</td></tr> <tr> <td></td><td data-bbox="766 1814 1085 1852">2 Crack injection.</td></tr> <tr> <td></td><td data-bbox="766 1881 1404 2004">3 Extra over structural concrete repairs for removal of concrete by high pressure water jetting.</td></tr> </tbody> </table>	Group	Feature	I	1 Structural concrete repairs.		2 Crack injection.		3 Extra over structural concrete repairs for removal of concrete by high pressure water jetting.
Group	Feature								
I	1 Structural concrete repairs.								
	2 Crack injection.								
	3 Extra over structural concrete repairs for removal of concrete by high pressure water jetting.								

Structural Concrete Repairs	43	Item coverage	II	1	Using proprietary repair mortars.		
			2	Using normal flow concrete.			
			3	Using high flow repair concrete.			
			4	Using proprietary sprayed concrete.			
			5	Using proprietary resins.			
			III	1	To top surfaces of slabs.		
			2	To soffits of slabs.			
			3	To beams, columns and crossheads.			
			4	To vertical faces of walls.			
			5	To edge beams and parapet upstands.			
			6	To top of walls, copings, edge beams and parapet upstands.			
			IV	1	Depth not exceeding 50mm.		
			2	Depth exceeding 50mm but not exceeding 100mm.			
			3	Depth exceeding 100mm but not exceeding 150mm.			
			The items for structural concrete repairs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for				
			(a)	saw cutting;			
			(b)	removal of defective concrete and surplus material to a licensed disposal facility (as Series 200 paragraph 11);			
			(c)	protective sheeting or shielding against debris and or spray and its removal;			
			(d)	blast cleaning reinforcement;			
			(e)	preparation of concrete surfaces to receive concrete repair materials;			
			(f)	concrete repair materials (as Series 1700 paragraph 5);			
			(g)	finishing;			

- (h) curing and protection of concrete repair materials;
- (i) sampling and testing;
- (j) working in confined spaces;
- (k) procedure trials;
- (l) sample panels;
- (m) masking adjacent areas;
- (n) removal of all rust and chloride deposits from reinforcement;
- (o) production tests;
- (p) water supply.

Formwork for Concrete Repairs

- 44 The units, measurement, itemisation and item coverage for formwork for concrete repairs shall be as this Series paragraphs 11-21 inclusive.

Steel Reinforcement for Concrete Repairs

- 45 The units, measurement, itemisation and item coverage for steel reinforcement for concrete repairs shall be as this Series paragraphs 22 to 27 inclusive.

Backfilling to Structures with Foamed Concrete

The units of measurement shall be

- | | | |
|-------------|----|---|
| Units | 46 | (i) Backfilling to Structures with foamed concretecubic metre.

(Measured extra over main construction). |
| Measurement | 47 | The Measurement of backfilling to Structures with foamed concrete will be the void formed between the surface of the Structure and formation level. |
| Itemisation | 48 | Separate items shall be provided for backfilling to Structures with foamed concrete in accordance with Chapter II paragraphs 3 and 4 and the following: |

Group	Feature
I	1 Backfilling to Structures with foamed concrete.

-
- 49 The items for the backfilling to Structures with foamed concrete shall in accordance with the Preambles to Schedule of Rates and Prices General Direction include for
- (a) in situ concrete (as this Series paragraph 5).

Series 2000 : Waterproofing for Structures

Surface Impregnation of Concrete

In paragraph 3 add the following

Group	Feature
IV	1 Different types of protective layer.

Add the following to paragraph 10

Testing of the existing deck shall be measured in accordance with Series 3300 (Site Investigation).

Additional preparation of bridge deck shall be measured in accordance with paragraph 16 of this series.

Structural repairs required to the existing deck shall be measured in accordance with series 1700 (Structural Concrete).

In paragraph 11 and the following Group and Feature

Group	Feature
III	1 Different types

Insert the following paragraphs 13 to 20 inclusive

Additional Preparation to Bridge Deck

13 The unit of measurement shall be:

- (i) Additional preparation to bridge deck square metre.

Measurement

14 The measurement of additional preparation to bridge deck shall be the area of the surface of the deck that requires additional preparation.

Itemisation

15 Separate items shall be provided for additional preparation to bridge deck in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Additional preparation of bridge deck.
II	1 Any inclination.

**Additional
Preparation to
Bridge Deck**

Item coverage

16 Items for additional preparation to bridge deck shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

- (a) inspection of existing deck;
- (b) marking out areas of deck preparation;
- (c) preparation of deck to receive new waterproofing;
- (d) disposal of materials (as Series 600 paragraph 39);
- (e) measures to prevent damage to existing surfaces.

Repair to Existing Waterproofing

Units

17 The unit of measurement shall be

- (i) Repair to existing waterproofing square metre.

Measurement

18 The measurement of repair to existing waterproofing shall be the developed area of surface covered by the waterproofing including the laps onto the existing system.

No deductions shall be made for openings of 100mm square or less.

Where the complete area of the bridge deck is to be removed and replaced, the items of 'removal of exiting waterproofing' and 'waterproofing' shall be measured, regardless of size.

For repairs to existing waterproofing where the area of an individual repair exceeds 25 square metres the items for 'removal of exiting waterproofing' and 'waterproofing' shall be measured.

Testing of the existing deck shall be measured in accordance with Series 3300 (Site Investigation).

Additional preparation of bridge deck shall be measured in accordance with paragraph 16 of this series.

Structural repairs required to the existing deck shall be measured in accordance with series 1700 (Structural Concrete).

Itemisation	19	Separate items shall be provided for repair to existing waterproofing in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Repair to existing waterproofing.
		II	1 Different types.
		III	1 Any inclination.
		IV	1 Different types of protective layer.
Repair to Existing Waterproofing	20	Items for repair to existing waterproofing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	removal of existing bridge deck waterproofing to a licensed disposal facility (as this Series paragraph 12);
		(b)	waterproofing (as this Series paragraph 4).

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Series 2300 : Bridge Expansion Joints and Sealing of Gaps

Add the following paragraphs 12 to 20 inclusive

Replacement Bridge Deck Expansion Joints

Definition	12	<p>The term “replacement bridge expansion joint” covers all types of permanent joint which allow expansion, contraction, shrinkage or angular rotation to take place in decks of Structures.</p> <p>In the Schedule of Rates and Prices, the item description of “Replace expansion joint type []” means removal of any type of existing expansion joint and replacement with the stated type in the item description.</p> <p>The term refurbishment of bridge expansion joint means the replacement of components that are no longer functioning including new inserts.</p> <p>Types of replacement bridge expansion joints and abbreviations used in the descriptions in the Schedule of Rates and Prices are as follows:</p> <table border="1"> <thead> <tr> <th>Type</th><th>Abbreviation</th><th>Description</th></tr> </thead> <tbody> <tr> <td>1</td><td>BJUCS</td><td>Buried joint under continuous surfacing.</td></tr> <tr> <td>2</td><td>APJ</td><td>Asphaltic plug joint.</td></tr> <tr> <td>3</td><td>NJWPS</td><td>Nosing joint with poured sealant.</td></tr> <tr> <td>4</td><td>NWPCS</td><td>Nosing with preformed compression seal.</td></tr> <tr> <td>5</td><td>RE</td><td>Reinforced Elastomeric.</td></tr> <tr> <td>6</td><td>EIMR</td><td>Elastomeric in metal runners.</td></tr> </tbody> </table>	Type	Abbreviation	Description	1	BJUCS	Buried joint under continuous surfacing.	2	APJ	Asphaltic plug joint.	3	NJWPS	Nosing joint with poured sealant.	4	NWPCS	Nosing with preformed compression seal.	5	RE	Reinforced Elastomeric.	6	EIMR	Elastomeric in metal runners.
Type	Abbreviation	Description																					
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4	NWPCS	Nosing with preformed compression seal.																					
5	RE	Reinforced Elastomeric.																					
6	EIMR	Elastomeric in metal runners.																					
Units	13	<p>The units of measurement shall be</p> <ul style="list-style-type: none"> (i) Replacement of bridge deck expansion jointslinear metre; (ii) Replacement of galvanised steel cover plates.....linear metre; (iii) Refurbish bridge deck expansion joint.....linear metre; (iv) Extra over replacement of bridge deck expansion joint for additional bedding material.....litre; 																					

		(v)	Extra over replacement bridge deck expansion joint for additional nosing material.....litre;																		
		(vi)	Additional stud replacement.....number.																		
Measurement	14	<p>The measurement of replacement of bridge expansion joint and galvanized steel cover plates shall be the complete installation. The stated length shall be measured along the centre line of the joint or plate cover.</p> <p>The measurement of extra over replacement of bridge expansion joint for additional bedding material shall be the additional bedding material required in excess of the nominal dimensions of the expansion joint determined in advance by the Operating Company.</p> <p>The measurement of extra over replacement of bridge expansion joint for additional nosing material shall be the additional nosing material required in excess of the nominal dimensions of the expansion joint determined in advance by the Operating Company.</p> <p>Alterations and or repairs to the Structure excluding any damage caused by the removal of the existing bridge expansion joint, shall be measured under Series 1700 concrete repairs.</p>																			
Itemisation	15	<p>Separate items shall be provided for replacement of bridge expansion joints in accordance with Chapter II paragraphs 3 and 4 and the following:</p> <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td><table><tr><td>1</td><td>Replacement of bridge expansion joints.</td></tr><tr><td>2</td><td>Replacement of galvanised steel cover plates.....linear metre.</td></tr><tr><td>3</td><td>Extra over replacement of bridge deck expansion joint for additional bedding material.</td></tr><tr><td>4</td><td>Extra over replacement bridge deck expansion joint for additional nosing material.</td></tr><tr><td>5</td><td>Additional stud replacement.</td></tr></table></td></tr><tr><td>II</td><td><table><tr><td>1</td><td>Different types or materials.</td></tr></table></td></tr></table>		Group	Feature	I	<table><tr><td>1</td><td>Replacement of bridge expansion joints.</td></tr><tr><td>2</td><td>Replacement of galvanised steel cover plates.....linear metre.</td></tr><tr><td>3</td><td>Extra over replacement of bridge deck expansion joint for additional bedding material.</td></tr><tr><td>4</td><td>Extra over replacement bridge deck expansion joint for additional nosing material.</td></tr><tr><td>5</td><td>Additional stud replacement.</td></tr></table>	1	Replacement of bridge expansion joints.	2	Replacement of galvanised steel cover plates.....linear metre.	3	Extra over replacement of bridge deck expansion joint for additional bedding material.	4	Extra over replacement bridge deck expansion joint for additional nosing material.	5	Additional stud replacement.	II	<table><tr><td>1</td><td>Different types or materials.</td></tr></table>	1	Different types or materials.
Group	Feature																				
I	<table><tr><td>1</td><td>Replacement of bridge expansion joints.</td></tr><tr><td>2</td><td>Replacement of galvanised steel cover plates.....linear metre.</td></tr><tr><td>3</td><td>Extra over replacement of bridge deck expansion joint for additional bedding material.</td></tr><tr><td>4</td><td>Extra over replacement bridge deck expansion joint for additional nosing material.</td></tr><tr><td>5</td><td>Additional stud replacement.</td></tr></table>	1	Replacement of bridge expansion joints.	2	Replacement of galvanised steel cover plates.....linear metre.	3	Extra over replacement of bridge deck expansion joint for additional bedding material.	4	Extra over replacement bridge deck expansion joint for additional nosing material.	5	Additional stud replacement.										
1	Replacement of bridge expansion joints.																				
2	Replacement of galvanised steel cover plates.....linear metre.																				
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5	Additional stud replacement.																				
II	<table><tr><td>1</td><td>Different types or materials.</td></tr></table>	1	Different types or materials.																		
1	Different types or materials.																				

	III	1	Cross sectional area not exceeding 0.05 square metres.
		2	Cross sectional area exceeding 0.05 square metres but not exceeding 0.10 square metres.
		3	Cross sectional area exceeding 0.10 square metres but not exceeding 0.15 square metres.
		4	Cross sectional area exceeding 0.15 square metres but not exceeding 0.20 square metres.
	IV	1	Movement range not exceeding 30mm.
		2	Movement range exceeding 30mm but not exceeding 100mm.
		3	Movement range exceeding 100mm but not exceeding 200mm.
	V	1	Length not exceeding 10 metres.
		2	Length exceeding 10 metres but not exceeding 15 metres.
		3	Length exceeding 15 metres but not exceeding 20 metres.
		4	Length exceeding 20 metres.
Replacement Of Bridge Expansion Joints	16	The items for replacement of bridge expansion joint shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:	
Item coverage		(a)	removing existing bridge expansion joint including sealants, metalwork and joint filler, sub-surface drainage, below joint drainage and insitu nosings;
		(b)	making good any damage caused by the foregoing operations;
		(c)	taking measures to prevent materials falling into the joint gap;
		(d)	disposal of material (as Series 600 paragraph 39);
		(e)	working around existing services including temporary support;
		(f)	sampling, testing, coring and reinstatement;

- (g) provision, maintenance and removal of temporary bridging plates;
- (h) removal of broken studs and replacement with new including grouting in;
- (i) cutting and making good surfaces of existing footway to provide flush joint between cover plate and footway;
- (j) working to existing surface profile including steps road camber or the like;
- (k) bridge expansion joints (as this Series paragraph 5).

Renew Joint Sealants

Units	17	The unit of measurement shall be:		
		(i)	renew joint sealants linear metre.	
Measurement	18	The measurement of renew joint sealants shall be the length of the joint on the external face of the sealant after renewal.		
Itemisation	19	Separate items shall be provided for renew joint sealants in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Renew joint sealants.
		II	1	Different joint types.
		III	1	Different widths.
Renew Joint Sealants	20	The items for renew joint sealants shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	removal of all traces of existing sealants, metalwork, and backing strips;	
		(b)	repairs to any damage caused by the foregoing operations;	
		(c)	taking measures to prevent materials falling into the joint gap;	
		(d)	disposal of material (as Series 600 paragraph 39);	
		(e)	joint sealant (as this Series paragraph 10).	

Series 2400 : Brickwork, Blockwork and Stonework

Add the following to paragraph 1

- | | |
|-------|---|
| Units | (iii) extra over any item of brickwork for lime mortar..... square metre; |
| | (iv) extra over any item of brickwork for lime mortar..... linear metre. |

Measurement Add the following to paragraph 2

All items in this series shall be deemed to cover alteration and repair works as well as new works.

Itemisation In paragraph 3 delete Feature 4 from Group IX

Add the following Group X to paragraph 3

Group	Feature
X	1 Extra over for lime mortar in any location.
	2 Lime mortar durability designation.

Add the following paragraph 4A

Extra Over any Item of Brickwork for Lime Mortar 4A The items for extra over any item of brickwork for lime mortar shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage (a) all additional costs in connection with using lime mortar.

Add the following to paragraph 5

Units (iv) extra over any item of blockwork and stonework for lime mortar..... cubic metre.

Measurement Add the following to paragraph 6

All items in this series shall be deemed to cover alteration and repair works as well as new works.

Itemisation In paragraph 7 delete Feature 4 from Group VIII

Add the following Group IX to paragraph 7

	Group	Feature
	IX	1 Extra over for lime mortar in any location.
		2 Lime mortar durability designation.
Add the following paragraph 8A		
Extra Over any Item of Blockwork and Stonework for Lime Mortar	8A	The items for extra over any item of blockwork and stonework for lime mortar shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage	(a)	all additional costs in connection with using lime mortar.
Remove from Store or from where previously Set Aside and Relay Brickwork, Blockwork or Stonework		
Delete paragraphs 9 to 12 inclusive and substitute the following paragraphs 9 to 12 inclusive		
Units	9	The units of measurement shall be
	(i)	remove from store or from where previously set aside and relay blockwork and stonework cubic metre;
	(ii)	remove from store or from where previously set aside and relay brickwork square metre;
	(iii)	remove from store or from where previously set aside and relay copings, string courses and the like linear metres;
	(iv)	remove from store or from where previously set aside and relay individual blocks, features or stones number;
	(v)	extra over any item of remove from store or from where previously set aside and relay stonework for lime mortar.....cubic metre.
Measurement	10	The measurement of remove from store or from where previously set aside and relay blockwork and stonework shall be the volume of the work. No deduction shall be made for holes or voids of 0.15 cubic metre or less.

The measurement of remove from store or from where previously set aside and relay brickwork shall be the superficial area of re-used brickwork.

No deductions shall be made for openings of 0.1 square metre or less.

The measurement of remove from store or from where previously set aside and relay copings, string courses and the like shall be the length of the work.

Brick facings shall be measured as extra over remove from store or from where previously set aside and relay brickwork except where the brickwork is built entirely of facings.

All items in this series shall be deemed to cover alteration and repair works as well as new works.

- Itemisation 11 Separate items shall be provided for remove from store or from where previously set aside and relay brickwork, blockwork and stonework in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature	
I	1	Remove from store and relay stonework.
	2	Remove from where previously set aside and relay stonework.
II	1	Different materials.
III	1	Different types of construction.
IV	1	Different types of mortar.
V	1	In walls.
	2	In facework to concrete.
	3	In arches.
VI	1	Extra over for lime mortar in any location.
	2	Lime mortar durability designation.

Remove from Store or from where previously Set Aside and Relay Brickwork, Blockwork or Stonework

12 The items for remove from store or from where previously set aside and relay brickwork, blockwork and stonework shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage

- (a) loading, transporting from store or where previously set aside unloading and positioning for relaying;
- (b) replacing items damaged during the foregoing operation;
- (c) modifications and new materials;
- (d) brickwork, copings, string courses and the like (as this Series paragraph 4);
- (e) blockwork, stonework, copings, string courses and the like, individual blocks, features or stones (as this Series paragraph 8);
- (f) retrieval of displaced materials from their position after displacement (excluding fees to Railtrack).

After paragraph 12 add the following paragraphs 13 to 24 inclusive:

Extra Over any Item of Remove from Store or from where previously Set Aside and Relay Brickwork, Blockwork and Stonework for Lime Mortar

13 The items for extra over any item of remove from store or from where previously set aside and relay brickwork, blockwork and stonework for lime mortar shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage

- (a) all additional costs in connection with using lime mortar.

Replacement and Rebedding of Precast Concrete Copings

Units	14	The unit of measurement shall be:											
	(i)	replacement of precast concrete coping, rebedding of precast concrete coping linear metre.											
Measurement	15	The measurement of replacement and rebedding of precast concrete copings shall be the length of the work required.											
Itemisation	16	Separate items shall be provided for replacement and rebedding of precast concrete copings in accordance with Chapter II paragraphs 3 and 4 and the following											
<table> <tr> <th>Group</th><th colspan="2">Feature</th></tr> <tr> <td rowspan="2">I</td><td>1</td><td>Replacement of precast concrete coping.</td></tr> <tr> <td>2</td><td>Rebedding precast concrete coping.</td></tr> <tr> <td>II</td><td>1</td><td>Different sizes.</td></tr> </table>			Group	Feature		I	1	Replacement of precast concrete coping.	2	Rebedding precast concrete coping.	II	1	Different sizes.
Group	Feature												
I	1	Replacement of precast concrete coping.											
	2	Rebedding precast concrete coping.											
II	1	Different sizes.											
Replacement of Precast Concrete Coping	17	The items for replacement of precast concrete copings shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for											
Item coverage	(a)	removal of broken precast concrete copings;											
	(b)	removal of old mortar bed and loose and friable mortar below;											
	(c)	disposal of material (as Series 600 paragraph 39);											
	(d)	precast concrete coping (as Series 1700 paragraph 10);											
	(e)	replacing items damaged during the foregoing operations.											
Rebedding Precast Concrete Coping	18	The items for rebedding precast concrete copings shall in accordance with the Preambles to Schedule of Rates and Prices General Directors include for											
Item coverage	(a)	taking up, storage, positioning for rebedding;											
	(b)	as this Series sub-paragraphs 16 (b), (c) and (e);											
	(c)	bedding mortar.											

Repointing

Definition	19	For items of repointing there shall be no limit to the depth of the joint to be replaced.														
Units	20	<p>The units of measurement shall be</p> <p>(i) repointing in walls and facework to concrete and arches..... square metre;</p> <p>(ii) repointing in string courses and copings..... linear metre;</p> <p>(iii) extra over any item of repointing for pointing with lime mortar..... square metre;</p> <p>(iv) extra over any item of repointing for pointing with lime mortar..... linear metre.</p>														
Measurement	21	<p>The measurement of repointing in walls and facework to concrete and arches shall be the superficial area of brickwork, blockwork and stonework required by this Contract. No deductions shall be made for openings of 0.10 square metres or less.</p> <p>The measurement of repointing in string courses and copings shall be the length of the joints in the brickwork, blockwork and stonework required by this Contract.</p> <p>All items in this series shall be deemed to cover alteration and repair works as well as new works.</p>														
Itemisation	22	<p>Separate items shall be provided for repointing in accordance with Chapter II paragraphs 3 and 4 and the following</p> <table><tr><th>Group</th><th>Feature</th></tr><tr><td rowspan="2">I</td><td>1 Brickwork.</td></tr><tr><td>2 Blockwork and Stonework.</td></tr><tr><td>II</td><td>1 Different types of mortar.</td></tr><tr><td rowspan="4">III</td><td>1 In walls and in facework to concrete.</td></tr><tr><td>2 In arches.</td></tr><tr><td>3 In string courses.</td></tr><tr><td>4 In copings.</td></tr><tr><td>IV</td><td>1 Extra over for lime mortar in any location.</td></tr></table>	Group	Feature	I	1 Brickwork.	2 Blockwork and Stonework.	II	1 Different types of mortar.	III	1 In walls and in facework to concrete.	2 In arches.	3 In string courses.	4 In copings.	IV	1 Extra over for lime mortar in any location.
Group	Feature															
I	1 Brickwork.															
	2 Blockwork and Stonework.															
II	1 Different types of mortar.															
III	1 In walls and in facework to concrete.															
	2 In arches.															
	3 In string courses.															
	4 In copings.															
IV	1 Extra over for lime mortar in any location.															

		2	Lime mortar durability designation.
Repointing	23	The items for and repointing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	sample panels;
		(b)	grinding out or raking out joints to a minimum depth of 25mm or until sound material is encountered;
		(c)	removing loose material from the backing and washing clean;
		(d)	curing and protection;
		(e)	admixtures and additives;
		(f)	disposal of material (as Series 600 paragraph 39);
		(g)	multiple operations for deep cavities;
		(h)	temporary supports;
		(i)	replacing items damaged during the foregoing operations.
Extra Over any Item of Pointing for Lime Mortar	24	The items for extra over any item of pointing for lime mortar shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	all additional costs in connection with using lime mortar.

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Series 2600 : Miscellaneous

Anti-Graffiti Coatings

Units	1	The units of measurement shall be:	
	(i)	apply anti-graffiti coatings square metre.	
Measurement	2	The measurement of anti-graffiti coatings shall be the surface area as Ordered by the Director.	
Itemisation	3	Separate items shall be provided for anti-graffiti coatings in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Apply anti-graffiti coatings.
Apply Anti-Graffiti Coatings	4	The items for apply anti-graffiti coatings shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage	(a)	preparation of surfaces;	
	(b)	masking and other measures;	
	(c)	preparing materials for applications;	
	(d)	multiple coat as recommended by manufacturer;	
	(e)	sealer/primer as recommended by manufacturer;	
	(f)	measures for protection.	

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Series 2800 : Winter Service Operations

Snow Poles

Units	1	The unit of measurement shall be		
		(i)	Snow polesnumber	
Measurement	2	The measurement of snow poles shall be the number Ordered by the Director and shall be for the complete installation.		
Itemisation	3	Separate items shall be provided for snow poles in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group	Feature	
		I	1	Snow poles.
		II	1	External diameter.
		III	1	Length.
Snow Poles	4	The items for snow poles shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
		(a)	excavation of acceptable material (as Series 600 paragraphs 17 and18);	
		(b)	excavation of unacceptable material (as Series 600 paragraph 19);	
		(c)	backfilling and compaction;	
		(d)	in situ concrete (as Series 1700 paragraph 5);	
		(e)	formwork (as Series 1700 paragraph 15);	
		(f)	reinforcement (as Series 1700 paragraph 26);	
		(g)	reinstatement of surfaces;	
		(h)	disposal of material (as Series 600 paragraph 39).	

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Series 3000 : Landscaping and Ecology

Ground Preparation and Cultivation

Definitions

Delete paragraph 1 and replace with the following

1. Landscape and ecology works in this Series shall comprise new works and maintenance of existing areas that are subject to an Order and not covered by items in Series 6100 Management Inspection and Cyclic Maintenance Operations.

Measurement

- 1A In this Series all items that have Features for surfaces sloping at 10° or less to the horizontal and surfaces sloping at more than 10° to the horizontal have been measured as surfaces sloping at 10° or less to the horizontal.

At the end of each sub section an extra over item has been included for surfaces sloping at more than 10° to the horizontal which shall apply to all items in that sub section.

Itemisation

In paragraph 4 add the following Groups III and IV:

Group	Feature
III	1 Different percentages of cover.
IV	2 On areas of rock and scree.

Note Group III shall only be applied to Group I Feature 1 items.

Group IV shall only be applied to areas of rock and scree.

Planting

In paragraph 10 delete paragraph (i) and replace with the following:

- (i) trees, hedges, shrubs, plants, bulbs, transplant and shrubsnumber.

Delete paragraph 11

Itemisation

In paragraph 12 add Group I Feature 7. Delete Group IV Features 1 to 5 and replace with Feature 1 all as follows

Group	Feature
I	7 Transplants, hedging and shrubs.
IV	1 Any location.

Weed Control

Itemisation

In paragraph 19 add the following Group II and III Features

Group	Feature
II	11 To areas prior to seeding and planting.
	12 To hedgerows.
III	2 Adjacent to waterbodies.

Maintenance of Established Trees and Shrubs

In paragraph 21 add new paragraphs (iv) and (v)

- (iv) removal of branches.....number;
- (v) repeat coppice to individual treenumber.

Itemisation

In paragraph 23 add the following Group I, II, III and VI Features.
Add Group VIII and IX

Group	Feature
I	9 Removal of branches.
	10 Repeat coppice of individual tree.
II	2 Any species and type.
III	2 Different specific branch diameters.
VI	2 Any location.
VIII	1 Different density of cover.
IX	1 Arisings chipped on site.
	2 Arisings removed from site.

In paragraph 25 add new item (h).

- (h) spreading of arisings on site.

In paragraph 26 add new item (g) and (h).

- (g) spreading of arisings on site.
- (h) Stump treatment.

In paragraph 27 add new item (i).

- (i) spreading of arisings on site.

In paragraph 28 add new item (h).

- (h) spreading of arisings on site.

Add new paragraphs 30A to 30H.

**Removal of
Branches**

30A The items for removal of branches shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage

- (a) as paragraph 29 items (a) to (j);
(b) spreading of arisings on site.

**Repeat coppice of
individual tree**

30B The items for repeat coppice of individual tree shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) as paragraph 25 items (a) to (h).

Stump Grinding, Stump Grubbing and Stump Killing Herbicide

Units

30C The unit of measurement shall be
(i) stump grinding, stump grubbing and stump killing herbicide..... number.

Measurement

30D The measurement of stump grinding, stump grubbing and stump killing herbicide shall be for the complete operation. The diameter shall be measured 1 metre above existing ground level.

Itemisation

30E Separate items shall be provided for stump grinding, stump grubbing and stump killing herbicide in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Stump grinding.
	2 Stump grubbing.
	3 Stump killing herbicide.
II	1 Different stump diameters.

Stump Grinding	30F	The items for stump grinding shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		<ul style="list-style-type: none"> (a) removal by mechanical grinding; (b) topsoil to existing levels; (c) removal of material down to the formation level of footways or paved areas; (d) disposal of material (as Series 600 paragraph 39); (e) herbicide treatment to remaining root ends.
Stump Grubbing	30G	The items for stump grubbing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		<ul style="list-style-type: none"> (a) complete removal of the stump including buttress and surface roots; (b) topsoil up to existing levels; (c) disposal of material (as Series 600 paragraph 39); (d) herbicide treatment to remaining root ends.
Stump Killing Herbicide	30H	The items for stump killing herbicide shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage		<ul style="list-style-type: none"> (a) drilling and frill girdling; (b) herbicide; (c) treatment of re-growth; (d) disposal of material (as Series 600 paragraph 39).

Control of Rabbits and Deer

Delete paragraph 39 (i) and replace with:

Units	39	(i) rabbit control within the highway boundary, rabbit clearance in fenced areas of planting, deer clearance in fenced areas of planting.....square metre.
-------	----	--

Add new paragraph 39A

Measurement 39A The measurement of rabbit control shall be the area Ordered by the Director.

In paragraph 40 add new Groups III and IV

Group	Feature
III	1 Initial clearance and control within one month.
	2 Re-clearance and control.
	3 Re-clearance and control.
IV	1 Time period.

Add new paragraphs 48 to 54

Watering

The units of measurement shall be:

Units 48 (i) shrubs, transplants and ornamental plots square metre;
(ii) hedges linear metre;
(iii) trees number.

Itemisation 49 Separate items shall be provided for watering in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Watering
II	1 Shrubs, transplants and ornamental plots.
	2 Hedges.
	3 Trees.

Watering 50 The items for watering shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage (a) watering evenly over entire areas;

(b) reinstatement of any damage caused by the foregoing operation;

(c) procurement of necessary licences and specialised/approved equipment.

Tree Tubes Guards and Ties

Units	51	The units of measurement shall be
	(i)	Replacement and removal of tree tubes, guards and ties..... number.
Measurement	52	The measurement shall be the number of individual tubes, guards or ties.
Itemisation	53	Separate items shall be provided for replacement and removal of tree tubes, guards and ties in accordance with Chapter II paragraphs 3 and 4 and the following
<hr/>		
	Group	Feature
<hr/>		
	I	1 Tree tube.
		2 Tree guard.
		3 Tree tie.
<hr/>		
	II	1 Replacement missing / damaged.
		2 Removal.
		3 Removal to store off site.
		4 Remove from store and refix.
<hr/>		
Replacement and Removal of Tree Tubes, Guards and Ties	54	The items for replacement and removal of tree tubes, guards and ties shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for
Item coverage	(a)	supply;
	(b)	fixing or removal;
	(c)	transport to or from store;
	(d)	disposal of material (as Series 600 paragraph 39).

Series 3200 : Emergency Response

Emergency Response

For the purposes of this Series normal working hours shall be defined as 0700 hours to 1900 hours inclusive Monday to Friday inclusive (excluding Public Holidays).

Emergency Response Resources shall include the labour plant and equipment as required by this Contract.

Units	1	<p>The units of measurement shall be</p> <p>(i) initial Emergency Response Resources..... number;</p> <p>(ii) additional hours for initial Emergency Response Resources..... hour.</p>
Measurement	2	<p>The measurement for initial Emergency Response Resources shall cover any period up to a maximum of 2 hours starting from the arrival at and finishing at the departure from the location of the Emergency or Site Operations on any road in connection with the Emergency.</p> <p>Initial Emergency Response Resources are measurable either within or outside normal working hours stated at the beginning of this Series above.</p> <p>The measurement of initial Emergency Response Resources shall be based upon the actual time that the call out is received by the Operating Company i.e. if the call out is received within normal working hours then the item of Initial Emergency Response Resources within normal working hours shall be measured and vice versa regardless of the actual time of arrival on site or the 2 hours period of dealing with the Emergency.</p> <p>The measurement for additional hours for initial Emergency Response Resources shall be the hours or part thereof worked at the location of the Emergency on any road in connection with the Emergency in excess of 2 hours during or outside normal working hours included in the item of initial Emergency Response Resources.</p> <p>The measurement of additional hours for initial Emergency Response Resources shall be for when they are undertaken i.e. either during or outside normal working hours or both.</p>

Where additional hours are both during and outside normal working hours the total quantity of both items shall not exceed the total additional hours worked.

Where the Emergency Response is a consequence of non performance of the Operating Company items in this Series shall not be measured.

Itemisation

3

Separate items shall be provided for Emergency responses in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Initial Emergency Response Resources.
	2 Additional hours for initial Emergency Response Resources.
II	1 During normal working hours.
	2 Outside normal working hours.

Initial Emergency Response Resources

4

The items for initial Emergency Response Resources shall in accordance with the Preambles to the Schedule of Rates General Direction include for

Item coverage

- (a) mobilisation of resources to meet response times including labour and plant time prior to Operations at the location of the Emergency or Site Operations on any road in connection with the Emergency;
- (b) the wages and other emoluments paid including payment for overtime;
- (c) costs and expenses consequent upon the employment or hiring of operatives or plant;
- (d) training and certification of competence as appropriate;
- (e) transport and specified equipment;
- (f) travel to and from the scene of the Emergency or Operations in connection with the Emergency on any road;
- (g) fuel and running costs;
- (h) acting on Orders and/or the instructions of the emergency services;

		(i)	reporting to the Director details of all Operations carried out and materials used;
		(j)	disruption to other work as a result of attending Emergencies.
Additional Hours for initial Emergency Response Resources	5		The items for additional hours for initial Emergency Response Resources shall in accordance with the Preambles to the Schedule of Rates General Directions include for
Item coverage		(a)	as paragraph 5 items (b) to (i) inclusive.

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Series 3300 : Site Investigations

Rotary Coring of Existing Carriageways

Units	1	The unit of measurement shall be																							
		(i)	rotary coring of existing carriageways number.																						
Measurement	2	<p>The measurement of rotary coring of existing carriageways shall be for the complete operation and the depth of core shall be taken as the overall length of the extracted core.</p> <p>The measurement of extra over items shall be the summation of the additional depth stages.</p> <p>Extra over items shall be for all bands of items to which they apply i.e. there shall be no banding of the extra over item itself.</p>																							
Itemisation	3	<p>Separate items shall be provided for rotary coring of existing carriageways in accordance with Chapter II paragraphs 3 and 4 and the following</p> <table><tr><th>Group</th><th></th><th>Feature</th></tr><tr><td>I</td><td>1</td><td>Rotary coring of existing carriageways.</td></tr><tr><td>II</td><td>1</td><td>Flexible carriageway.</td></tr><tr><td></td><td>2</td><td>Concrete carriageway.</td></tr><tr><td>III</td><td>1</td><td>Different diameters.</td></tr><tr><td>IV</td><td>1</td><td>Total depth of core not exceeding 150mm.</td></tr><tr><td></td><td>2</td><td>Extra over for each increase in depth of core of 150mm or part thereof.</td></tr></table>			Group		Feature	I	1	Rotary coring of existing carriageways.	II	1	Flexible carriageway.		2	Concrete carriageway.	III	1	Different diameters.	IV	1	Total depth of core not exceeding 150mm.		2	Extra over for each increase in depth of core of 150mm or part thereof.
Group		Feature																							
I	1	Rotary coring of existing carriageways.																							
II	1	Flexible carriageway.																							
	2	Concrete carriageway.																							
III	1	Different diameters.																							
IV	1	Total depth of core not exceeding 150mm.																							
	2	Extra over for each increase in depth of core of 150mm or part thereof.																							
Rotary Coring of Existing Carriageways	4	<p>The items for rotary coring of existing carriageways shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for</p>																							
Item coverage		(a)	cutting and extracting sample;																						
		(b)	labelling, packaging and delivery to the Operating Company's store;																						

- (c) recording required data analysing interpretation and supplying the Director with a copy of the data and reports;
- (d) protection and storage of samples on purpose built racks or shelves supplied by the Operating Company;
- (e) removing all loose or superfluous material;
- (f) disposal of material (as Series 600 paragraph 39);
- (g) locating, working around and supporting pipes, cables, services, apparatus and the like;
- (h) reinstatement of paved area (as Series 700 paragraph 36).

Rotary Coring of Existing Structures

Units	5	The unit of measurement shall be:		
		(i)	rotary coring of existing Structures number.	
Measurement	6	The measurement of rotary coring of existing Structures shall be the complete operation and the depth of core shall be taken as the overall length of the extracted core.		
Itemisation	7	Separate items shall be provided for rotary coring of existing Structures in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Rotary coring of existing Structures.
		II	1	Different materials.
		III	1	Different diameters.
		IV	1	Total depth not exceeding 150mm.
			2	Total depth exceeding 150mm but not exceeding 300mm.
			3	Total depth exceeding 300mm but not exceeding 450mm.
			4	Total depth exceeding 450mm but not exceeding 600mm.

Rotary Coring of Existing Structures

8

The items for rotary coring of existing Structures shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage

- (a) locating reinforcement;
- (b) cutting and extracting sample;
- (c) labelling, packaging and delivery to the Operating Company's store;
- (d) recording required data analysing and supplying the Director with a copy of the data and reports;
- (e) protection and storage of samples on purpose built racks or shelves supplied by the Operating Company;
- (f) removing all loose or superfluous material;
- (g) disposal of material (as Series 600 paragraph 39);
- (h) reinstatement;
- (i) locating, working around and supporting pipes, cables, services, apparatus and the like;
- (j) working in confined spaces.

Inspection Patches on Bridge Structures

Units

9

The unit of measurement shall be

- (i) excavate inspection patches, reinstate inspection patches number.

Measurement

10

The measurement of excavate and reinstate inspection patches shall be for the complete operation.

Itemisation

11

Separate items shall be provided for excavate and reinstate inspection patches on bridge Structures in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature	
I	1	Excavate inspection patches on bridge Structures.
	2	Reinstate inspection patches on bridge Structures.
II	1	Different depths.

		III	1	Different areas.
Excavate and Reinstatement Inspection Patches on Bridge Structure	12	The items for excavate and reinstate inspection patches on bridge Structure shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(i)	in the case of excavate;	
		(a)	excavation (as Series 600 paragraphs 17,18 19 and 23);	
		(b)	removal of waterproofing system (as Series 2000 paragraph 12);	
		(c)	disposal of material (as Series 600 paragraph 39).	
		(ii)	in the case of reinstate;	
		(a)	reinstatement of paved area (as Series 700 paragraph 36);	
		(b)	waterproofing (as Series 2000 paragraph 4).	
Structural Investigations				
Units	13	The unit of measurement shall be		
		(i)	half cell potential survey; cover survey; delamination/soundness survey; exposing reinforcement; ultrasonic pulse velocity survey square metre;	
		(ii)	other surveys, tests and examinations..... number.	
Measurement	14	The measurement of half cell potential surveys, cover surveys, delamination/soundness surveys and exposing reinforcement ultrasonic pulse velocity survey shall be the area surveyed or exposed.		
		The measurement of other surveys tests and examinations shall be the number of surveys tests and examinations performed.		
Itemisation	15	Separate items shall be provided for structural investigations in accordance with Chapter II paragraphs 3 and 4 and the following:		

		Group	Feature
		I	1 Surveys.
			2 Exposing reinforcement.
			3 Chemical tests.
			4 Physical tests.
Structural Investigations	16	The items for structural investigations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	obtaining concrete dust samples;
		(b)	protecting and transporting samples to the laboratory;
		(c)	testing at an accredited laboratory;
		(d)	providing the Director with advance copies of the results of the half cell potential surveys;
		(e)	providing reports.
Falling Weight Deflectometer Tests			
Units	17	The unit of measurement shall be:	
		(i)	falling weight deflectometer test number.
Measurement	18	The measurement of falling weight deflectometer tests of carriageways shall be for the number of tests Ordered by the Overseeing Organisation and shall be for the complete operation.	
Itemisation	19	Separate items shall be provided for rotary coring of carriageways in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Falling weight deflectometer tests.
		II	1 Carriageways.
Falling Weight Deflectometer Tests	20	The items for falling weight deflectometer tests shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for	

- | | | |
|---------------|-----|--|
| Item coverage | (a) | temperature measurements including repairs to carriageway; |
| | (b) | recording required data analysing interpretation and supplying the Director with a copy of the data and reports. |

Dynamic Cone Penetrometer Tests

- | | | |
|-------|-----|--|
| Units | 21 | The unit of measurement shall be: |
| | (i) | dynamic cone penetrometer testing of unbound carriageway subbase/capping layer/subgrade and verges.....number. |

- | | | |
|-------------|----|--|
| Measurement | 22 | The measurement of dynamic cone penetrometer tests of unbound carriageway subbase/capping layer/subgrade and verges shall be for the complete operation. Depth of penetration as required. |
|-------------|----|--|

- | | | |
|-------------|----|--|
| Itemisation | 23 | Separate items shall be provided for dynamic cone penetrometer tests of unbound carriageway subbase/capping layer/subgrade and verges in accordance with Chapter II paragraphs 3 and 4 and the following |
|-------------|----|--|

Group	Feature
I	1 Dynamic cone penetrometer testing of unbound carriageway subbase/capping layer/subgrade and verges.
II	1 Any depth.

- | | | |
|---|----|--|
| Dynamic Cone Penetrometer Tests of Unbound Carriageway Subbase/Capping Layer/Subgrade and Verges | 24 | The items for dynamic cone penetrometer tests of unbound carriageway subbase/capping layer/subgrade and verges shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for |
|---|----|--|

- | | | |
|---------------|-----|--|
| Item coverage | (a) | drilling or coring through impenetrable layers; |
| | (b) | repeating failed tests; |
| | (c) | recording required data analysing interpretation and supplying the Director with a copy of the data; |
| | (d) | reinstatement; |
| | (e) | disposal of material (as Series 600 paragraph 39). |

Trial Holes

Units	25	The unit of measurement shall be:
	(i)	trial holes in paved areas, trial holes in unpaved areas cubic metre.
Measurement	26	The measurement of trial holes shall be the volume of the void, calculated on the basis of the horizontal area at the bottom of the excavation with the depth being measured from the bottom of the excavation to the level at which excavation is directed to be commenced.
Itemisation	27	Separate items shall be provided for trial holes in accordance with Chapter II paragraphs 3 and 4 and the following
<hr/>		
	Group	Feature
	I	1 Trial holes in paved areas.
		2 Trial holes in unpaved areas.
	II	1 By hand.
Trial Holes	28	The items for trial holes shall in accordance with the Preambles to Bill of Quantities General Directions include for
Item coverage	(a)	trial pits (as Series 600 paragraph 169).

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Series 5000 : Maintenance Painting of Steelwork

Surface Preparation and Protective System

Itemisation

In paragraph 4 Delete Groups III and VI and Note at the bottom of paragraph 'Group VI shall be applied only to Group II Feature 1'.

Re-number Group IV as III. Renumber Group V as Group IV

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Series 6100: Management Inspection and Cyclic Maintenance Operations

Definition	1	<p>Part I of this Series covers the Management Inspection and Cyclic Maintenance Operations required to be provided as referred to in the other Schedules to this Contract.</p> <p>Compliance with a Part of a Schedule specified in the item coverage shall be inclusive of all activities expressed or implied but shall exclude Operations that are expressly stated as being subject to an Order.</p> <p>Operations subject to an Order shall be measured in the appropriate Series in the Schedule of Rates and Prices including Part 2 of this Series and the adjustment and additional items to monthly measured items in Part I of this Series.</p> <p>Part II of this Series includes Operations that are in excess but not limited to the requirements detailed in Part I of this Series and are only measurable subject to an Order from the Director.</p>
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Part I - Management Inspection and Cyclic Maintenance

Units	2	<p>The units of measurement shall be</p> <ul style="list-style-type: none"> (i) management inspection and cyclic maintenancemonth; (ii) provide systems, information leaflet..... item; (iii) network customer information signs..... number; (iv) factor “k”.....factor; (v) adjustment items.....square metres per month; (vi) additional items.....square metres.
Measurement	3	<p>The measurement of work for provision of systems and information leaflet shall be on a lump sum basis on completion of each item.</p> <p>The measurement of work for network customer information signs shall be the number of signs erected.</p> <p>The measurement of management inspection and maintenance and Operations shall be for each month of this</p>

Contract unless specifically limited subject to compliance with the other provisions of this Contract.

- 3A The measurement of adjustment items and additional items are for adjustments and/or additions to the monthly item of grass bulbs and wildflower areas and are strictly subject to an Order by the Director.

Grass areas are designated in Part 1 of Schedule 9 Series 3000 as requiring high medium low and minimal frequency cutting.

Ornamental shrub beds are designated in Part I of Schedule 9 Series 3000 as requiring high medium and low frequency maintenance.

The measurement of the adjustment items shall be on the basis of a change to the level of frequency of grass cutting or ornamental shrub bed maintenance.

When a change in frequency is instructed the measurement shall be for the area that is subject to change.

This will be an addition to the item of the new frequency and a deduction to the item of the existing frequency.

An example would be where the Director issues an Order to change 1000m² of grass cutting from low frequency to high frequency, which would result in +1000m²(plus) for the item of high frequency grass cutting and -1000m²(minus) for the item of low frequency grass cutting.

The measurement of additional visits for ornamental shrub beds requiring maintenance shall include for all Operations required to comply with the typical annual maintenance requirements of Appendix 30/10 in Series 3000 of Part 1 of Schedule 9.

- 3B The item reference 6100/05/052 of 'adjustment to Winter Service Operations for the use of pre-wetted salt' will if used be the subject of an Order for the duration of this Contract.

- 3C The item reference 6100/05/061 of incident support service will if used be subject to an Order for the duration of this Contract.

- 3D The item reference 6100/05/062 of adjustment to incident support for each additional support team will if used be subject to an Order.

- 3E The factor "k" shall be limited to a value between 0 and 0.5.

Itemisation	4	Separate item shall be provided for management inspection and cyclic maintenance Operations in accordance with Chapter II paragraphs 3 and 4 and the following																
		<table><tr><td>Group</td><td>Feature</td></tr><tr><td>I</td><td>1 Schedule number.</td></tr><tr><td>II</td><td>1 Part number.</td></tr><tr><td>III</td><td>1 Section number.</td></tr><tr><td></td><td>2 Paragraph number.</td></tr><tr><td>IV</td><td>1 Adjustment item.</td></tr><tr><td></td><td>2 Additional item.</td></tr><tr><td>V</td><td>1 Frequency.</td></tr></table>	Group	Feature	I	1 Schedule number.	II	1 Part number.	III	1 Section number.		2 Paragraph number.	IV	1 Adjustment item.		2 Additional item.	V	1 Frequency.
Group	Feature																	
I	1 Schedule number.																	
II	1 Part number.																	
III	1 Section number.																	
	2 Paragraph number.																	
IV	1 Adjustment item.																	
	2 Additional item.																	
V	1 Frequency.																	
Consultation, Liaison and Co-ordination	5	The item for consultation, liaison and co-ordination shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for																
Item coverage		(a) compliance with Part 4 of Schedule 3.																
Contracts in Progress and Outwith Operating Company Arrangements	6	The item for contracts in progress and outwith Operating Company Arrangements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for																
Item Coverage		(a) compliance with Part 5 of Schedule 3. Where the Director shall appoint the Operating Company as Engineer for Works Contracts where the previous Operating Company was acting as Engineer the Operating Company shall be paid separately under Series 6200.																
Correspondence, Enquiries and Complaints	7	The item for correspondence, enquiries and complaints shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for																
Item coverage		(a) compliance with Part 6 of Schedule 3.																
Customer Contact Service	8	The item for customer contact service shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for																
Item coverage		(a) compliance with Part 7 Sections 1 and 2 of Schedule 3.																

Network Customer Information Signs	9	The item for network customer information signs shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraph 1.5.1 of Part 7 of Schedule 3;
		(b) supply and erection of signs (as Series 1200).
Information Leaflet	10	The item for information leaflet shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraph 1.5.2 of Part 7 of Schedule 3.
National Driver Information and Control System (NADICS)	11	The item for national driver information and control system (NADICS) shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 8 of Schedule 3.
Statutory Functions	12	The item for Statutory Functions shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 9 of Schedule 3.
Programme and Budget Preparation	13	The item for programme and budget preparation shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 1 of Schedule 4.
Provide Contract Control and Management System	14	The item for provide contract control and management system shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) provision of the contract control and management system as specified in Part 2 Section 4 of Schedule 4.
Contract Control and Management System	15	The item for contract control and management system shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 2 of Schedule 4 excluding provision of the contract control and management system which shall be paid separately.

Scottish Executive Road Information System	16	The item for Scottish Executive Road Information System shall be in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 3 of Schedule 4.
Electrical Energy	17	The item for electrical energy shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 4 of Schedule 4.
Damages	18	The item for damages shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 5 of Schedule 4 excluding paragraph 3.2.1 and 3.2.2.
Damage to Crown Property Costing less than or equal to £10,000 to Repair or Replace and Clear	19	The item for damage to crown property costing less than or equal to £10,000 to repair or replace and clear shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraph 3.2.1 and 3.2.2 of Part 5 of Schedule 4;
		(b) damage costing less than £10000 where a fatal accident has occurred is excluded in accordance with paragraph 3.4.1 of Part 5 of Schedule 4.
Quality Management System	20	The item for Quality Management System shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 1 of Schedule 5.
Records and Information and Communication Technology	21	The item for records and information and communication technology shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 2 of Schedule 5.
Reporting Requirements	22	The item for reporting requirements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 3 of Schedule 5.

Core Management Team and Key Staff	23	The item for core management team and key staff shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraphs 1.1.1 to 1.3.3 inclusive of Part 4 of Schedule 5.
Operating Company Central Office	24	The item for Operating Company central office shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraphs 2.1.1 to 2.1.7 inclusive of Part 4 of Schedule 5.
Sub-offices Depots and the like	25	The item for sub-offices depots and the like shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraphs 2.2.1 to 2.3.1 inclusive of Part 4 of Schedule 5.
Material Stocks	25A	The item for material stocks shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraphs 2.4.1 to 2.4.2.5 inclusive of Part 4 of Schedule 5.
Communication Systems	25B	The item for communication systems shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraphs 2.5.1 to 2.5.3 inclusive of Part 4 of Schedule 5.
Access to Operating Company Central Office, Sub-offices, Depots and the like	26	The item for access to Operating Company central office, sub-offices depots and the like shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraphs 2.6.1 to 2.6.2 inclusive of Part 4 of Schedule 5.
Access to Works	27	The item for access to Works shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraph 2.7.1 of Part 4 of Schedule 5.

Audits by the Performance Audit Group	28	The item for audits by the Performance Audit Group shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 6 of Schedule 5.
Design Procurement and Certification of Operations and Works	29	The item for Design procurement and certification of Operations and Works shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 1 of Schedule 6 excluding Design paid under Series 6200 and procurement and supervision of Works Contracts paid under Series 6300.
Construction (Design and Management) Regulations 1994	30	The item for Construction (Design and Management) Regulations 1994 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 2 of Schedule 6.
Road Safety Audits	31	The item for road safety audits shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 3 of Schedule 6. When the subject of an Order duties undertaken on road safety audits in compliance with paragraph 3.5.2 of Part 3 of Schedule 6 shall be paid for separately under Series 6200.
Routine Maintenance and Management System	32	The item for Routine Maintenance and Management System shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraph 1.3 of Part 1 of Schedule 7.
Inspections and Safety Patrols	33	The item for inspections and safety patrols shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with paragraph 1.2.4 of Part 1 of Schedule 7 (b) compliance with paragraphs 1.4 to 1.6 inclusive of Part 1 of Schedule 7

		(c)	compliance with paragraph 2.2.1(i)(ii) of Part 1 of Schedule 7 and
		(d)	compliance with paragraph 2.3 of Part 1 of Schedule 7.
Hazard Notices and Observations Identified by Performance Audit Group	34		The item for hazard notices and observations identified by performance audit group shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a)	compliance with paragraph 3 of Part 1 of Schedule 7.
Carriageway	35		The item for carriageway shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a)	compliance with paragraph 4.1 of Part 1 of Schedule 7.
Pedestrian and Cycle Facilities	36		The item for pedestrian and cycle facilities shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a)	compliance with paragraph 4.2 of Part 1 of Schedule 7.
Covers, Gratings and Frames	37		The item for covers, gratings and frame shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a)	compliance with paragraph 4.3 of Part 1 of Schedule 7.
Kerbs and Edgings	38		The item for kerbs and edgings shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a)	compliance with paragraph 4.4 of Part 1 of Schedule 7.
Linear Drainage Systems	39		The item for linear drainage systems shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a)	compliance with paragraph 4.5 of Part 1 of Schedule 7.

Gullies, Catchpits, Soakaways and Oil Separators	40	The item for gullies, catchpits, soakaways and oil separators shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.6 of Part 1 of Schedule 7.
Drainage Grips	41	The item for drainage grips shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.7 of Part 1 of Schedule 7.
Ditches	42	The item for ditches shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.8 of Part 1 of Schedule 7.
Filter Material	43	The item for filter material shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.9 of Part 1 of Schedule 7.
Drainage Structures	44	The item for drainage Structures shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.10 of Part 1 of Schedule 7.
Balancing Ponds	45	The item for balancing ponds shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.11 of Part 1 of Schedule 7.
Ancillary Drainage Items	46	The item for ancillary drainage items shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage	(a)	compliance with paragraph 4.12 of Part 1 of Schedule 7.
Communication and Miscellaneous Equipment	47	The item for communication and miscellaneous equipment shall in accordance with the Preambles to Schedule of Rates General Directions include for

Item coverage		(a) compliance with paragraph 4.13 of Part 1 of Schedule 7.
Geotechnical Assets	48	The item for geotechnical assets shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.14 of Part 1 of Schedule 7.
Grass Bulbs and Wildflower Areas	49	The item for grass bulbs and wildflower areas shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.15 of Part 1 of Schedule 7.
Adjustment to Grass Bulbs and Wildflower Areas	49A	The item for adjustment to grass bulbs and wildflower areas shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.15 of Part 1 of Schedule 7.
Addition to Grass Bulbs and Wildflower Areas	49B	The item for addition to grass bulbs and wildflower areas shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.15 of Part 1 of Schedule 7.
Established Trees and Shrubs	50	The item for established trees and shrubs shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.16 of Part 1 of Schedule 7.
Waterbodies	51	The item for waterbodies shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.17 of Part 1 of Schedule 7.
Special Ecological Measures	52	The item for special ecological measures shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.18 of Part 1 of

Schedule 7.

Litter and Refuse	53	The item for litter and refuse shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.19 of Part 1 of Schedule 7.
Removal of Dead Animals	54	The item for removal of dead animals shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.20 of Part 1 of Schedule 7.
Vehicle Road Restraint Systems	55	The item for vehicle road restraint systems shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.21 of Part 1 of Schedule 7.
Pedestrian Road Restraint Systems	56	The item for pedestrian road restraint systems shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.22 of Part 1 of Schedule 7.
Fences , Walls, Screens and Noise Barriers	57	The item for fences, walls, screens and noise barriers shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.23 of Part 1 of Schedule 7.
Road Markings	58	The item for road markings shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.24 of Part 1 of Schedule 7.
Road Studs	59	The item for road studs shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.25 of Part 1 of Schedule 7.

Road Traffic Signs	60	The item for road traffic signs shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.26 of Part 1 of Schedule 7.
Road Traffic Signals	61	The item for road traffic signals shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.27 of Part 1 of Schedule 7.
Road Lighting	62	The item for road lighting shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.28 of Part 1 of Schedule 7.
Ice Sensors	63	The item for ice sensors shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.29 of Part 1 of Schedule 7
Arrester Beds	64	The item for arrester beds shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.30 of Part 1 of Schedule 7.
Snow Poles, Snow Gates, Snow Fences and Snow and Ice Hidden Message Signs	65	The item for snow poles, snow gates, snow fences and snow and ice hidden message signs shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.31 of Part 1 of Schedule 7.
Traffic Control Barriers	66	The item for traffic control barriers shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.32 of Part 1 of Schedule 7.

Removal of Graffiti	67	The item for removal of graffiti shall in accordance with the Preambles to Schedule of Rates General Directions include for
Item coverage		(a) compliance with paragraph 4.33 of Part 1 of Schedule 7.
Winter Service	68	The item for Winter Service shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 2 of Schedule 7.
Adjustment to Winter Service for the Use of Pre-wetted Salt	68A	The item for adjustment to Winter Service for the use of pre-wetted salt shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) all costs associated with the use of pre-wetted salt on all Trunk Roads in the Unit on which the Operating Company shall not propose to use pre-wetted salt for precautionary de-icing treatments.
Reconciliation of Payments in accordance with Annex 7 to Schedule 1 – Factor “K”	68B	The item for reconciliation of payments in accordance with Annex 7 to Schedule 1 – factor “k” shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Annex 7 to Schedule 1.
Emergency Response	69	The item for Emergency Response shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 3 of Schedule 7.
Traffic Safety and Management	70	The item for traffic safety and management shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 4 of Schedule 7.
Landscape Development Plan and Report	71	The item for landscape development plan and report shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 5 of Schedule 7.
New Roads and Street Works Act 1991	72	The item for New Roads and Street Works Act 1991 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for

Item coverage		(a) compliance with Part 6 of Schedule 7. When subject to an Order duties undertaken in compliance with paragraphs 7.1.2(v), 7.1.3 and 7.1.5 of Part 6 of Schedule 7 shall be paid for separately under Series 3300.
Management and Maintenance of Structures	73	The item for management and maintenance of Structures shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 7 of Schedule 7. When Subject to an Order duties undertaken in compliance with paragraph 3.2.5 of Part 7 of Schedule 7 shall be paid for separately under Series 6200.
Structures with Particular Requirements	74	The item for Structures with particular requirements shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 8 of Schedule 7.
Severe Weather Services	74A	The item for severe weather services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 9 of Schedule 7.
Incident Support Service	74B	The item for incident support service shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 10 of Schedule 7.
Adjustment to Incident Support Service for Each Additional Incident Support Team	74C	The item for adjustment to incident support service for each additional support team shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) all costs associated with each additional incident support team and compliance with paragraphs 2.3.1 to 2.4.1 of Part 10 of Schedule 7.
Abnormal Indivisible Load Routeing	75	The item for abnormal indivisible load routeing shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage		(a) compliance with Part 1 of Schedule 8.
Development Control	76	The item for development control shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for

Item coverage (a) compliance with Part 2 of Schedule 8. When the subject of an Order duties undertaken in compliance with paragraphs 1.5.1, 1.6.1 and 2.2.1 of Part 2 of Schedule 8 shall be paid for separately under Series 6200.

Road Safety and Accident Investigation and Prevention 77 The item for road safety and accident investigation and prevention shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for

Item coverage (a) compliance with Part 3 of Schedule 8 excluding Procurement and Supervision of Works Contracts paid under Series 6300.

Traffic Counting Duties 78 The item for traffic counting duties shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for

Item coverage (a) compliance with Part 4 of Schedule 8. When the subject of an Order duties undertaken in compliance with Part 4 of Schedule 8 shall be paid for separately under Series 6200.

Signing 79 The item for signing shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for

Item coverage (a) compliance with Part 5 of Schedule 8.

Part II - Management Inspection and Cyclic Maintenance Operations

Definitions 80 Series 6100 Management Inspection and Cyclic Maintenance Operations covers activities that are required to be undertaken as part of monthly lump sum items as detailed in Part 1 of Schedule 7.

The following Operations are in excess of the requirements detailed in Part I of this Series are only measurable subject to an Order from the Director

Road Restraint Systems

Units 81 The unit of measurement shall be

(i) re-tensioning safety barriersmetre.

Itemisation 82 Separate items shall be provided for re-tensioning safety barriers in accordance with Chapter II paragraphs 3 and 4 and the following

		Group	Feature
		I	1 Re-tensioning.
		II	1 Safety barrier.
			2 Wire rope.
		III	1 Single sided.
			2 Double sided.
Re-tensioning Safety Barrier	83	The items for re-tensioning safety barrier shall in accordance with the Preambles to Bill of Quantities General Directions include for	
Item coverage		(a)	applying a releasing agent to adjuster assembly;
		(b)	ensuring the nut is capable of travel along the whole of the threaded portion of the adjuster bolt;
		(c)	remove existing and replace beam to post screws, nut and washers;
		(d)	tighten adjuster bolt to correct torque appropriate to the ambient temperature;
		(e)	tighten lock nut to correct torque;
		(f)	tighten beam to post bolt to the correct torque;
		(g)	adjust wire rope rigging screws to achieve tension appropriate to the ambient temperature.
Drainage			
Units	84	The units of measurement shall be	
		(i)	low pressure high volume jettingmetre;
		(ii)	extra over any item of low pressure high volume jettingmetre.
Itemisation	85	Separate items shall be provided for low pressure high volume jetting in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Low pressure high volume jetting.
		II	1 Piped drain.

		2	Combined drainage and kerb system.
		3	Linear drainage channel system.
	III	1	Different diameters.
		2	Any diameter.
		3	Any type.
	IV	1	Extra over for use of root cutter.
Low Pressure High Volume Jetting	86	The items for low pressure high volume jetting shall in accordance with the Preambles to Bill of Quantities General Directions include for	
Item coverage		(a)	cleaning existing drainage systems (as Series 500 paragraph 84).
Extra Over any item of Jetting for use of Root Cutter	87	The items for extra over any item of jetting for use of root cutter shall in accordance with the Preambles to Bill of Quantities General Directions include for	
Item coverage		(a)	all additional costs for use of root cutter.
Cleaning of Street Furniture			
Units	88	The unit of measurement shall be	
		(i)	cleaning of sign faces, sign faces on gantry, marker posts hazard posts, ECP cylinders, bollard, refuge beacon.....number.
Itemisation	89	Separate items shall be provided for cleaning of street furniture in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Cleaning.
		II	1 Sign face.
			2 Marker post.
			3 Hazard post.
			4 ECP cylinder.
			5 Bollard.
			6 Refuge beacon.

		7	Painted safety fence.
	III	1	Not exceeding 0.5 square metres in area.
		2	Exceeding 0.5 square metres but not exceeding 1.0 square metres.
		3	Exceeding 1.0 square metres but not exceeding 2.0 square metres.
		4	Exceeding 2.0 square metres but not exceeding 5.0 square metres.
		5	Exceeding 5.0 square metres but not exceeding 10.0 square metres.
		6	Exceeding 10.0 square metres but not exceeding 20.0 square metres.
	IV	1	On gantry.
Cleaning of Street Furniture	90	The items for cleaning of street furniture shall in accordance with the Preambles to Schedule of Rates General Directions include for	
Item coverage		(a)	detergent cleaner;
		(b)	water supply and all costs in connection therewith;
		(c)	cleaning spillage on hard surfaces below signs.

Landscape Maintenance

Grass Cutting

Units	91	The unit of measurement shall be	
		(i)	cutting close mown grass, amenity grass, grass banks and ditches, grass in road verge in selected full width cuts.....square metre;
		(ii)	close mown grass trimming edges , trimming edges, amenity grass trimming edges, close mown grass reforming edges, grass reforming edges, amenity grass reforming edges,linear metre;
		(iii)	cutting grass in verge in 1.2m wide swathe cutkilometre.

Itemisation	92	Separate items shall be provided for grass cutting, trimming edges and reforming edges in accordance with Chapter II paragraphs 3 and 4 and the following	
		Group	Feature
		I	1 Grass cutting.
			2 Trimming edges of grass.
			3 Reforming edges of grass.
		II	1 In close mown areas.
			2 In amenity areas.
			3 In banks and ditches.
			4 In highway verge in 1.20 metre swathe cut.
			5 In highway verge in selected full width cuts.
			6 In central reserves.
Grass Cutting	93	The items for grass cutting shall in accordance with the Preambles to Schedule of Rates General Directions include for	
Item coverage		(a)	mowing, cutting or strimming;
		(b)	taking precautions to avoid any damage;
		(c)	cutting around posts, signs and superficial obstructions;
		(d)	cutting around trees, cutting around flowering bulbs;
		(e)	removing cuttings from hard areas and the like;
		(f)	removing seats, litter bins, temporary signs and the like, and replacing upon completion;
		(g)	removal of litter, stones and other deleterious materials;
		(h)	dispersal of cuttings from non-hard areas evenly over the sward.

Trimming Edges 94 The items for trimming edges shall in accordance with the Preambles to Schedule of Rates General Directions include for

- Item coverage
- (a) trimming edges;
 - (b) taking precautions to avoid any damage;
 - (c) trimming edges around posts, signs and superficial obstructions;
 - (d) trimming edges around trees, cutting around flowering bulbs;
 - (e) removing cuttings from hard areas and the like;
 - (f) removing seats, litter bins, temporary signs and the like, and replacing upon completion.

Reforming Edges 95 The items for reforming edges shall in accordance with the Preambles to Schedule of Rates General Directions include for

- Item coverage
- (a) reforming edges;
 - (b) taking precautions to avoid any damage;
 - (c) reforming edges around posts, signs and superficial obstructions;
 - (d) reforming edges around trees, cutting around flowering bulbs;
 - (e) removing seats, litter bins, temporary signs and the like, and replacing upon completion.

Hedge Trimming

Units 96 The units of measurement shall be

- (i) trimming hedgeslinear metre.

97 Separate items shall be provided for hedge trimming in accordance with Chapter II paragraphs 3 and 4 and the following

Group	Feature
I	1 Trimming hedges.
II	1 Less than 2 metres high.

		2	Over 2 metres high.
	III	1	One side and top.
		2	Both sides and top.
	IV	1	Large leafed evergreen.
Hedge Trimming	98	The items for hedge trimming shall in accordance with the Preambles to Schedule of Rates General Directions include for	
Item coverage		(a)	trimming;
		(b)	taking precautions to avoid damage;
		(c)	disposal of all hedge cuttings and debris;
		(d)	where appropriate shredding and disposal on Site;
		(e)	removal of clippings lodged in top or sides of the hedge;
		(f)	removal of all litter and debris from within the Structure of the hedge.
Road Cleaning and Clearance			
Units	99	The units of measurement shall be	
		(i)	clean carriageway, hard shoulder, nearside channel, offside channel, roundabout channel, central reserve, footways/cyclewayskilometre;
		(ii)	remove dead animal carcasses and single objectsnumber.
Measurement	100	If the Local Authority fail to perform its duties under the requirements of the Environmental Protection Act 1990 items of road cleaning and clearance may be ordered on trunk roads.	
		The removal of objects less than 25kg is included in the clean items.	
		The removal of animal carcasses of any weight and objects in excess of 25kg are separately measured items.	
		The removal of objects and animal carcasses shall be dealt with in a timescale appropriate to the prevailing circumstances e.g. if deemed by the Operating Company to be a Category 1 Defect, it shall be dealt with in accordance	

of the requirements of Part 1 of Schedule 7. Measurement of removal shall be as the appropriate item in this Series and shall not be measured as an Emergency.

Itemisation	101	Separate items shall be provided for road cleaning and clearance in accordance with Chapter II paragraphs 3 and 4 and the following																											
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td rowspan="2">I</td><td>1</td><td>Clean.</td></tr><tr><td>2</td><td>Remove animal carcasses and single objects.</td></tr><tr><td rowspan="7">II</td><td>1</td><td>Carriageway.</td></tr><tr><td>2</td><td>Hard shoulder.</td></tr><tr><td>3</td><td>Nearside channel.</td></tr><tr><td>4</td><td>Offside channel.</td></tr><tr><td>5</td><td>Roundabout channel.</td></tr><tr><td>6</td><td>Central reserves.</td></tr><tr><td>7</td><td>Footways/cycleways.</td></tr><tr><td rowspan="2">III</td><td>1</td><td>Verges.</td></tr><tr><td>2</td><td>Other Areas.</td></tr></table>	Group	Feature	I	1	Clean.	2	Remove animal carcasses and single objects.	II	1	Carriageway.	2	Hard shoulder.	3	Nearside channel.	4	Offside channel.	5	Roundabout channel.	6	Central reserves.	7	Footways/cycleways.	III	1	Verges.	2	Other Areas.
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	2	Other Areas.																											
Clean	102	The items for clean shall in accordance with the Preambles to Schedule of Rates General Directions include for																											
Item coverage		<table><tr><td>(a)</td><td>hand or mechanical sweeping;</td></tr><tr><td>(b)</td><td>picking up objects not exceeding 25kg from hard areas in timescales appropriate to the prevailing circumstances;</td></tr><tr><td>(c)</td><td>water supply;</td></tr><tr><td>(d)</td><td>removal of sweepings, objects not exceeding 25kg and debris.</td></tr></table>	(a)	hand or mechanical sweeping;	(b)	picking up objects not exceeding 25kg from hard areas in timescales appropriate to the prevailing circumstances;	(c)	water supply;	(d)	removal of sweepings, objects not exceeding 25kg and debris.																			
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(d)	removal of sweepings, objects not exceeding 25kg and debris.																												
Remove Animal Carcasses and Single Objects	103	The items for remove animal carcasses and single objects shall in accordance with the Preambles to Schedule of Rates General Directions include for																											
Item coverage		<table><tr><td>(a)</td><td>picking up animal carcasses and single objects exceeding 25kg in timescales appropriate to the</td></tr></table>	(a)	picking up animal carcasses and single objects exceeding 25kg in timescales appropriate to the																									
(a)	picking up animal carcasses and single objects exceeding 25kg in timescales appropriate to the																												

prevailing circumstances;

- (b) placing in sacks;
- (c) disposal of material (as Series 600 paragraph 39);
- (d) working in central reserves, drainage lagoons, overgrown and landscaped areas;
- (e) working around and between safety fences, noise fences, screen fences and other obstructions;
- (f) working on slopes and berms.

Litter Clearance

Units	104	The units of measurement shall be																
		(i) Keeping land clear of litter and refusekilometre.																
Measurement	105	If the Local Authority fail to perform its duties under the requirements of the Environmental Protection Act 1990 items of keeping land clear of litter and refuse may be Ordered on Trunk Roads. Measurement shall be the linear length of associated highway irrespective of the width of clearance.																
Itemisation	106	Separate items shall be provided for keeping land clear of litter and refuse in accordance with Chapter II paragraphs 3 and 4 and the following																
		<table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td>1 Keeping land clear of litter and refuse.</td></tr><tr><td>II</td><td>1 Grassed areas.</td></tr><tr><td></td><td>2 Central reserves.</td></tr><tr><td></td><td>3 Hard surfaced areas (traffic lanes).</td></tr><tr><td></td><td>4 Hard surfaced areas (non-trafficked surfaces).</td></tr><tr><td>III</td><td>1 Grade C to B.</td></tr><tr><td></td><td>2 Grade D to B.</td></tr></table>	Group	Feature	I	1 Keeping land clear of litter and refuse.	II	1 Grassed areas.		2 Central reserves.		3 Hard surfaced areas (traffic lanes).		4 Hard surfaced areas (non-trafficked surfaces).	III	1 Grade C to B.		2 Grade D to B.
Group	Feature																	
I	1 Keeping land clear of litter and refuse.																	
II	1 Grassed areas.																	
	2 Central reserves.																	
	3 Hard surfaced areas (traffic lanes).																	
	4 Hard surfaced areas (non-trafficked surfaces).																	
III	1 Grade C to B.																	
	2 Grade D to B.																	
Keeping Land Clear of Litter and Refuse	107	The items for keeping land clear of litter and refuse shall in accordance with the Preambles to Schedule of Rates General Directions include for																

Item coverage	(a)	picking up litter and refuse in timescales appropriate to the prevailing circumstances;
	(b)	placing in sacks;
	(c)	disposal of material (as Series 600 paragraph 39);
	(d)	working in central reserves, drainage lagoons, overgrown and landscaped areas;
	(e)	working around and between safety fences, noise fences, screen fences and other obstructions;
	(f)	working on slopes and berms.

Series 6200: Professional Services Rates and Prices

Professional Services Rates and Prices

Definition	1	<p>Professional services and Prices (professional Operatives) rates and prices shall be used to make payment for professional services where the subject of an Order that refers to such method of reimbursement.</p> <p>Professional services rates shall apply for the Designs referred to in paragraph 1.1.2 of Part 1 of Schedule 6. The item coverage for Design requires compliance with Part 1 of Schedule 6 excluding Procurement and Supervision of Works Contracts paid under Series 6300 and excluding paragraphs 1.1.1, 1.1.4, 2.1.2, 3.1.1, 3.1.2, 5.10.1, 5.11.1, 5.11.2 and 5.11.6 of Part 1 of Schedule 6.</p> <p>Operations shall be carried out by the Operating Company using personnel conforming to the requirements of Clause 6201AR of Part 1 of Schedule 9</p>								
Units	2	<p>The units of measurement shall be</p> <p>(i) staff category and classification.....hour.</p>								
Measurement	3	<p>The measurement of work at professional services rates shall be based on certified timesheet records. Travel time shall only be reimbursed for travel from the Central Office or a sub office within the Unit to the location where the services are being undertaken whichever is the lesser.</p>								
Itemisation	4	<p>Separate items shall be provided for professional services rates in accordance with Chapter II paragraphs 3 and 4 and the following:</p> <table><tr><th>Group</th><th>Feature</th></tr><tr><td rowspan="2">I</td><td>1 On, adjacent or associated with a Trunk Road.</td></tr><tr><td>2 At locations other than on, adjacent or associated with a Trunk Road.</td></tr><tr><td rowspan="2">II</td><td>1 Category of staff.</td></tr><tr><td>2 Staff classification.</td></tr></table>	Group	Feature	I	1 On, adjacent or associated with a Trunk Road.	2 At locations other than on, adjacent or associated with a Trunk Road.	II	1 Category of staff.	2 Staff classification.
Group	Feature									
I	1 On, adjacent or associated with a Trunk Road.									
	2 At locations other than on, adjacent or associated with a Trunk Road.									
II	1 Category of staff.									
	2 Staff classification.									
Professional Services	5	<p>The items for professional services rates shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:</p>								
Item Coverage	(a)	<p>basic time and overtime worked;</p>								

- (b) non-productive overtime payments;
- (c) bonuses and/or incentive payments;
- (d) National Insurance;
- (e) holidays with pay;
- (f) sickness benefits;
- (g) pension and life insurance benefits;
- (h) travel and subsistence;
- (i) car and/or car allowance;
- (j) office accommodation, equipment and supplies;
- (k) administration (including managerial, supervisory, clerical, administrative and accountancy staff);
- (l) any tax, charge, levy impost or payment of any kind which the Operating Company shall be obliged to pay by law to make on behalf of persons employed by the Operating Company including all mobilisation and demobilisation requirements;
- (m) appropriate computers and general office applications and software;
- (n) printing, binding, photocopying and the like;
- (o) preparation, updating and submission to the Director of registers of staff, curricula vitae and otherwise;
- (p) all other costs and charges and the like associated with the employment of any such professional.

**Series 6300: Payment for the Procurement and Supervision of
Works Contracts**

Payment for the Procurement and Supervision of Works Contracts

Definition	<p>1 Procurement and Supervision of Works Contracts rates and prices shall be used to make payment for the procurement and Supervision of all Works Contracts.</p> <p>Works Contracts shall be classified as follows</p> <ul style="list-style-type: none">(i) Roadworks - having a bridgeworks content of 10% or less of the final construction cost;(ii) Roadworks and bridgeworks - having a bridgeworks content more than 10% but not exceeding 60% of the final construction cost;(iii) Bridgeworks - having a roadworks content of less than 40% of the final construction cost;(iv) Lane rental – in combination with any of the above items (i) to (iii) under a lane rental regime;(v) Final construction cost shall be the value of the final account for Works Contract excluding VAT, liquidated and ascertained damages and any bonuses or changes related to lane rental Works Contracts. <p>This rates and prices in this Series 6300 shall also be deemed to apply to works on the Unit undertaken by others that the Scottish Ministers require the Operating Company to procure and/or Supervise.</p> <p>2 The following definitions shall apply to this Series 6300 of this Schedule 2</p> <ul style="list-style-type: none">(i) “Roadworks” means all works other than bridgeworks;(ii) “Bridgeworks” means works on Structures;(iii) “Lane rental” means a Works Contract where the requirements of a lane rental Clause for a bonus for early completion and charge for late completion are included. <p>The Order and subsequent measurement of procurement and Supervision for Works Contracts with element construction costs up to £250,000 shall be at the absolute discretion of the Scottish Ministers.</p>
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Measurement	3	(i)	The percentage adjustment entered against the first cost band shall be applied to the cost of Works Contracts having a cost not more than £250,000. The percentage adjustment entered against the first cost band shall also be applied to the first £250,000 of Works Contracts having a cost more than £250,000;
		(ii)	The percentage adjustment entered against the second cost band shall be applied to the cost of Works Contracts having a cost more than £250,000 and not more than £750,000. The percentage adjustment entered against the first cost band shall also be applied to the first £250,000 of Works Contracts having a cost more than £750,000;
		(iii)	The percentage adjustment entered against the third cost band shall be applied only to that element of the cost more than £750,000 but shall also be applied to that element between £750,000 and £1,500,000 of Works Contracts having a cost more than £1,500,000;
		(iv)	The percentage adjustment entered against the fourth cost band shall be applied only to that element of the cost more than £1,500,000 but shall also be applied to that element between £1,500,000 and £3,000,000 of Works Contracts having a cost more than £3,000,000;
		(v)	The percentage adjustment entered against the fifth cost band shall be applied only to that element of Works Contracts having a cost of more than £3,000,000 up to the Threshold Value of £5,000,000.
	4		As an example of the use of the cost bands, for a roadworks Works Contract with a final Works Contract cost of £1,375,000 the percentage adjustments would be applied as follows
		01/001	£250,000
		01/002	£500,000
		01/003	£625,000
			Separate items are provided for the procurement and supervision of Works Contracts with or without lane rental conditions.
Units	5		The unit of measurement shall be
		(i)	percentage of final construction cost of the Works Contractpercentage.

	6	Separate items shall be provided for the procurement and Supervision of Works Contracts in accordance with Chapter II paragraphs 3 and 4 and the following	
Itemisation		Group	Feature
		I	1 Works Contracts.
		II	1 Procurement.
			2 Supervision.
		III	1 Roadworks.
			2 Roadworks and bridgeworks.
			3 Bridgeworks.
			4 Lane rental roadworks
			5 Lane rental roadworks and bridgeworks.
			6 Lane rental bridgeworks.
		IV	1 Element construction cost not more than £250,000.
			2 Element construction cost £250,001 to £750,000 inclusive.
			3 Element of construction cost £750,001 to £1,500,000 inclusive.
			4 Element of construction cost £1,500,001 to £3,000,000 inclusive.
			5 Element of construction cost £3,000,001 to £5,000,000 inclusive.
Procurement of Works Contracts	7	The percentage adjustments inserted in the items for the procurement of Works Contracts shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for	
Item Coverage		(a)	compliance with paragraphs 4.1 to 4.3 inclusive (but excluding paragraphs 4.1.9 and 4.1.11) of Part 1 of Schedule 6.
Supervision of Works Contracts	8	The percentage adjustments inserted in the items for Supervision of Works Contracts shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for	

Item Coverage (a) compliance with paragraphs 3.1.3, 4.1.9, 4.1.11, 4.4 to 4.8 inclusive, 5.6, 5.7, 5.8, 5.1.2.2 and 5.11.3 to 5.11.5 inclusive of Part 1 of Schedule 6 .

The following items shall not be included in the percentage adjustments but as defined in Series 100 of the Method of Measurement for Highway Works shall be included where appropriate in the Works Contracts.

- (b) temporary accommodation for the Engineer;
- (c) vehicles for the Engineer;
- (d) communication system for the Engineer;
- (e) operatives for the Engineer;
- (f) scheme information boards;
- (g) information signs.

Series 6400: Adjustment to Schedule of Rates and Prices

Time Band Adjustment

- 1 The percentage adjustments apply to each of the time bands shown below, excluding time band reference 1 which is not subject to adjustment.

Time Band Reference		
Time Band Reference	Day of Week	Hours
1	Monday to Friday (inclusive)	0700 to 1900 inclusive
2	Monday pm to Tuesday am Tuesday pm to Wednesday am Wednesday pm to Thursday am Thursday pm to Friday am	1900 to 0700 inclusive
3	Friday pm to Monday am	1900 to 0700 inclusive
4	Public Holiday	1900x to †0700 inclusive

x previous day to Public Holiday

† following day to Public Holiday

- 2 Each time band adjustment shall comprise one percentage adjustment to cover all Series except for Series 700 which shall be separately measured and those Series stated in the Preambles to the Schedule of Rates and Prices paragraph 19 as not being subject to any time band adjustment.

- 3 The unit of measurement shall be:

Units (i) Percentage adjustment to rates and prices for Operationspercentage.

Measurement 4 The percentages shall be applied where relevant to the value of the relevant Operations executed within each time band.

Itemisation	5	Separate items shall be provided for time band adjustments in accordance with Chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Percentage adjustment to rates for Operations.
		II	1	Time band reference.
		III	1	Series 700.
			2	All other Series (excluding Series 700).
Time Band Adjustment to Schedule of Rates and Prices	6	The percentage adjustments inserted in the items for time band adjustment to Schedule of Rates and Prices shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for		
Item Coverage	(a)	all additional costs.		
		Adjustment for Works Within and Below Non-Tidal Open Water or Tidal Water		
	7	The unit of measurement shall be		
Units	(i)	Percentage adjustment to rates for Operations executed within and below non tidal open water.....percentage;		
	(ii)	Percentage adjustment to rates for Operations executed between mean high water springs and mean low waters springs.....percentage;		
	(iii)	Percentage adjustment to rates for Operations executed below mean low water springs.....percentage.		
Measurement	8	The percentages adjustment shall be applied to the value of the Operations executed within and below non-tidal open water or tidal water below mean high water springs.		
Itemisation	9	Separate items shall be provided for Operations within and below non-tidal open water or tidal water below mean high water springs in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group	Feature	
		I	1	Percentage adjustment to rates for Operations.
		II	1	Within and below non-tidal open water.

		2	Between mean high water springs and mean low waters springs.
		3	Below mean low water springs
Adjustment for Works Within and Below Non-Tidal Open Water or Tidal Water	10	The percentage adjustments inserted in the items for adjustment for Operations within and below non-tidal open water or tidal water to Schedule of Rates and Prices shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for	
Item Coverage	(a)	all additional costs.	

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Series 6500: Time Work Schedule

Time Work Schedule

Definition

- 1 The following terms and conditions shall apply to all work the subject of an Order in accordance with Schedule 1 to this Contract to be executed on a Time Work Schedule basis.

The term 'Sub-contractors' used in this Series shall include "Labour only" sub-contractors.

Sub-contractors labour plant and materials shall be included on the statements submitted by the Operating Company pursuant to Clause 10.3.1 of Schedule 1 to this Contract and shall be paid at the Rates and Prices contained herein as though they are directly employed by the Operating Company in accordance with this Series. No adjustment or allowance shall be applied in respect of labour plant and materials supplied by sub-contractors.

For the purposes of labour the Operating Company's normal working hours shall be defined as 0700 hrs to 1900 hrs Monday to Friday inclusive.

Series 6500 time work schedule items shall only be measured where there are either no appropriate items in this Schedule or no similar items from which a rate can be deduced (in accordance with Clause 10.1.1(ii) of Schedule 1) in this Schedule

Labour

- 2 Trades and activities to be carried out by the labour type as detailed under this Series shall be as Table 1 below.

Labour Type	Trades and Activities Applicable (inclusive of sub-contractors).
Ganger	Working foreman, covering all trades.
Driver/machine operator	Heavy goods vehicle driver, machine/plant operator.
Skilled operative	Surfacing operative, traffic management operative, fencing operative, footway and kerb laying operative, drainage operative, scaffolder, reinforcement bar fixer, steelwork erectors / fabricator, mechanic / fitter, welder and the like, landscaping operative.
Craftsman	Bricklayer, painter, decorator, carpenter, joiner, plumber and the like.
Electrical Engineer	Traffic signals, road lighting and communications engineer.
General Operative	Labourer, watchman, banksman handyman, light duty driver and the like.

Table 1

Units

3

The units of measurement shall be:

- (i) ganger hour;
- (ii) driver/machine operator hour;
- (iii) skilled operative hour;
- (iv) craftsman hour;
- (v) electrical engineer..... hour;
- (vi) general operative hour.

Measurement

4

The measurement of ganger, driver/machine operator, skilled operative, craftsman, electrical engineer and general operative shall be the actual hours spent on work on the Site Operations when such Site Operations are subject of an Order to be carried out at Rates and Prices in this Series 6500.

The measurement of outside the Operating Company's normal working hours shall only be applicable when the Site Operations are either so referred to an Order or required due to time work restraints to be carried outside the Operating Companies normal working hours.

Itemisation

5

Separate items shall be provided for Labour in accordance with chapter II paragraphs 3 and 4 and the following.

Group	Feature
I	1 Ganger.
	2 Driver/machine operator.
	3 Skilled operative.
	4 Craftsman.
	5 Electrical engineer.
	6 General operative.
II	1 During the Operating Company's normal working hours.
	2 Outside the Operating Company's normal working hours.

Labour

6

The items for Labour shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item coverage

- (a) basic cost of labour for workmen;
- (b) plus rates for skill;
- (c) all other amounts of every kind paid in accordance with the rules of the appropriate wage fixing body;
- (d) non - productive overtime and costs associated therewith;
- (e) all bonuses, payments and incentives in excess of the basic cost of labour;
- (f) national Insurance and Surcharges;
- (g) normal contract works, Third Party and Employers liability insurances;
- (h) annual and public holidays with pay and benefit scheme;

- (i) non-contributory sick pay scheme;
- (j) industrial training levy;
- (k) redundancy payments;
- (l) the Employment Rights Act 1996;
- (m) site supervision and staff including foremen and walking gangers;
- (n) small tools, appliances and plant not provided for in paragraphs 7, 8 and 9 of this Series;
- (o) protective clothing;
- (p) transport within or related to the Unit;
- (q) welfare facilities;
- (r) establishment charges, overheads and profit;
- (s) preparation, updating and submission to the Director of registers of staff, curricula vitas and otherwise;
- (t) travelling time to from within or related to the Unit.

Definitions

Plant

7 Basic Cost of Plant and Percentage Adjustment

- (i) The basic cost of plant shall be charged at the Hire Rates set down in Section 4 Plant of Schedules of Dayworks Carried Out Incidental to Contract Work published by the Civil Engineering Contractors Association current forty two days prior to the Tender submission date for this Contract.

The notices and conditions set down in Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work shall not apply;
- (ii) Only the actual time plant is working or made available on site in accordance with sub paragraph (iv) of this paragraph 7 on Time Work Operations shall be chargeable;
- (iii) The period stated in Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work for plant not listed shall be the minimum chargeable;

		<div><div>(iv)</div><div>Plant the subject of an Order by the Director to be made available on site for a Time Work Operation shall be charged at two-thirds of the rate obtained in accordance with sub-paragraph (i) of this paragraph 7 for the time the plant is made available but not used, subject to a maximum of 8 hours per working day and 40 hours in a working week;</div></div> <div><div>(v)</div><div>Rates for mechanical and other special plant not normally classed as small tools and not included in the Schedule of Rates and Prices or Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work shall be paid for at hire rates reasonably related to those obtained in accordance with sub-paragraph (i) of this paragraph 7;</div></div> <div><div>(vi)</div><div>The Operating Company shall include for percentage adjustment to the basic cost of plant in Section 4 Plant of the Schedule of Dayworks Carried Out Incidental to Contract Work. The adjustment may be positive or negative.</div></div>				
Units	8	<div>The units of measurement shall be</div> <div><div>(i)</div><div>basic cost of plant sum;</div></div> <div><div>(ii)</div><div>percentage adjustment to the basic cost of plant..... percentage.</div></div>				
Itemisation	9	<div>Separate items shall be provided for the basic cost of plant in accordance with chapter II paragraphs 3 and 4 and the following</div> <table><tr><th>Group</th><th>Feature</th></tr><tr><td>I</td><td><div><div>1</div><div>Basic cost of plant.</div></div><div><div>2</div><div>Percentage adjustment to the basic cost of plant.</div></div></td></tr></table>	Group	Feature	I	<div><div>1</div><div>Basic cost of plant.</div></div> <div><div>2</div><div>Percentage adjustment to the basic cost of plant.</div></div>
Group	Feature					
I	<div><div>1</div><div>Basic cost of plant.</div></div> <div><div>2</div><div>Percentage adjustment to the basic cost of plant.</div></div>					
Basic Cost of Plant	10	<div>The basic cost of plant for Time Work shall in accordance with Section 4 Plant of the Schedules of Dayworks carried out incidental to Contract Work and in accordance with the Preambles to Schedule of Rates and Prices General Directions include for include for</div>				

Item coverage	(a)	all associated costs irrespective of whether plant is owned, hired or leased;
	(b)	fuel;
	(c)	consumable stores;
	(d)	repairs;
	(e)	maintenance;
	(f)	insurance;
	(g)	establishment charges overheads and profit;
	(h)	be exclusive of operator, driver and attendants.

**Percentage
Adjustment to the
Basic Cost of Plant**

11 The percentage adjustment to the basic cost of plant shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for include for

Item coverage	(a)	owned, hired or leased plant;
	(b)	general servicing, overheads and replacements;
	(c)	fuel distribution;
	(d)	transporting within or related to the Unit;
	(e)	all other charges and costs not recovered in basic cost of plant;
	(f)	discounts.

Materials

Definitions	12	Basic Cost of Materials and Percentage Adjustment
	(i)	The basic cost of materials shall be charged at the net invoiced price of materials delivered to the Operating Company;
	(ii)	The Operating Company shall include for percentage adjustment to the basic cost of materials in Section 2 Materials of the Schedule of Dayworks Carried Out Incidental to Contract Work. The adjustment may be positive or negative.

Units 13 The units of measurement shall be

- (i) basic cost of materials
sum;

		(ii)	percentage adjustment to the basic cost of materials..... percentage.	
Itemisation	14	Separate items shall be provided for the basic cost of materials in accordance with chapter II paragraphs 3 and 4 and the following		
		Group	Feature	
		I	1	Basic cost of materials.
			2	Percentage adjustment to the basic cost of materials.
Basic Cost of Material	15	The basic cost of material for Time Work shall in accordance with Section 2 Materials of the Schedules of Dayworks carried out incidental to Contract Work and in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	all costs of materials delivered to the Unit;	
		(b)	establishment charges overheads and profit.	
Percentage Adjustment to the Basic Cost of Materials	16	The percentage adjustment to the basic cost of materials shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for		
Item coverage		(a)	ordering and taking delivery;	
		(b)	unloading, storing and protecting;	
		(c)	double handling;	
		(d)	waste;	
		(e)	discounts;	
		(f)	establishment charges overheads and profit;	
		(g)	delivery within or related to the Unit;	
		(h)	all other charges and costs not recovered in basic cost of materials.	

Supplementary Services

Definition	17	Services involving the payment of invoiced costs for supplementary services shall include but not be limited to the following
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		<div><div>(i)</div><div>Procurement of supplementary services for items that are not included in the Schedule of Rates and Prices or covered by a method of payment in Clause 10.1.1.(i) to (iv) of Schedule 1 including Nominated Subcontractors;</div></div> <div><div>(ii)</div><div>Procurement of supplementary services shall not include labour plant and materials paid elsewhere in this Series 6500 : Time Work Schedule;</div></div> <div><div>(iii)</div><div>Tipping charges. Tipping charges incurred by the Operating Company shall only be separately measured in respect of arisings resulting from work Ordered to be carried out on a Time Work basis.</div></div>														
Units	18	<div>The units of measurement shall be</div> <div><div>(i)</div><div>invoiced costs of accountssum;</div></div> <div><div>(ii)</div><div>percentage to be adjustment to invoiced costs....percentage.</div></div>														
Measurement	19	<div>The measurement of invoiced costs for payment of accounts for supplementary services shall be the value of invoices received, after any discounts given except in respect of any discount for prompt payment not exceeding 2½% which may be retained by the Operating Company.</div> <div>The percentage adjustment shall be applied to the correctly submitted invoiced costs excluding VAT.</div>														
Itemisation	20	<div>Separate items shall be provided for invoiced costs of accounts for supplementary services in accordance with Chapter II paragraphs 3 and 4 and the following</div> <table><thead><tr><th>Group</th><th>Feature</th></tr></thead><tbody><tr><td rowspan="2">I</td><td>1</td><td>Invoiced costs of accounts.</td></tr><tr><td>2</td><td>Percentage adjustment to invoiced costs.</td></tr><tr><td rowspan="3">II</td><td>1</td><td>Supplementary services.</td></tr><tr><td>2</td><td>Nominated Subcontractors.</td></tr><tr><td>3</td><td>Tipping charges.</td></tr></tbody></table>	Group	Feature	I	1	Invoiced costs of accounts.	2	Percentage adjustment to invoiced costs.	II	1	Supplementary services.	2	Nominated Subcontractors.	3	Tipping charges.
Group	Feature															
I	1	Invoiced costs of accounts.														
	2	Percentage adjustment to invoiced costs.														
II	1	Supplementary services.														
	2	Nominated Subcontractors.														
	3	Tipping charges.														
Percentage Adjustment to Invoiced Costs for Supplementary Services.	21	<div>The percentage adjustment to invoiced costs for supplementary services shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for</div>														

- Item coverage
- (a) general management of the relevant services;
 - (b) obtaining quotations and placing orders;
 - (c) payment of invoices and subsequent inclusion of the relevant amounts in monthly statements including any interest costs;
 - (d) any cost incurred by the Operating Company in respect of supplementary services;
 - (e) procurement (as Series 6300 paragraph 5);
 - (f) supervision (as Series 6300 paragraph 6);

In the case of Nominated Subcontractors

- (g) labours in connection with Nominated Subcontractors as detailed in the Preambles to the method of this measurement of measurement paragraph 8.

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Series 6600: Payment of Accounts

Payment of Accounts

Definition	1	Services involving the payment of accounts shall include but not be limited to the following:	
		(a)	payment of statutory undertakers accounts;
		(b)	payment of Network Rail possession charge accounts or the like.
Units	2	The units of measurement shall be	
		(i)	invoiced costs of accountssum;
		(ii)	percentage to be added to invoiced costs.
Measurement	3	The measurement of invoiced costs for payment of accounts shall be the value of invoices received, after any discounts given except in respect of any discount for prompt payment not exceeding 2½% which may be retained by the Operating Company.	
		The percentage adjustment shall be applied to the invoiced costs excluding VAT.	
Itemisation	4	Separate items shall be provided for invoiced costs of accounts in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Invoiced costs of statutory undertakers accounts.
			2 Invoiced costs of Network Rail accounts.
			3 Percentage to be added to invoiced costs of statutory undertakers accounts.
			4 Percentage to be added to invoiced costs of Network Rail accounts.
Percentage to be Added to Invoiced Costs for Statutory Undertakers Accounts.	5	The percentage to be added to invoiced costs of Statutory Undertakers accounts. shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for	
Item coverage		(a)	payment of invoices and subsequent inclusion of the relevant amounts in monthly statements including any interest costs;

- (b) any other costs in connection with the payment of invoices.

**Percentage to be
Added to
Invoiced Costs
for Network Rail
Possession
Charge Accounts**

- 6 The percentage to be added to invoiced costs of Network Rail possession charge accounts. shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for

Item Coverage

- (a) payment of invoices and subsequent inclusion of the relevant amounts in monthly statements including any interest costs;
- (b) all costs in connection with working on or in the vicinity of Network Rail land;
- (c) any other costs in connection with the payment of invoices.

Series 6700: Changes in Scope of Operations

Changes in the Extent of the Unit Impacting on Monthly Sum Items in Series 6100

Definition

The provisions of this Series shall not apply to “Operations activities duties and responsibilities in any other part of the Scottish Trunk Road network outside the boundary of the Unit” as detailed in Clause 7.2.8 of Schedule 1.

If at any time during the currency of this Contract the extent of the Unit increases or decreases or the balance between the three categories of road types alters items are provided to cover the impact of the change on monthly sum items measured in Series 6100.

Cumulative spans of bridges are the summation of the individual clear span(s) that makes up the bridge.

Units

- 1 The units of measurement shall be
 - (a) addition/deduction for increase/decrease in the extent of the Unit for Trunk Roadskilometre-month.
 - (b) addition/deduction for increase/decrease in the extent the Unit for Structures.....number-month.

Measurement

- 2 The measurement of the change in the extent of Trunk Roads in the Unit shall be the length of road added to or removed from the Unit.

Roundabouts and slip roads shall be measured as single carriageway.

For slip roads the length shall be the distance between the mid point of the nominal channel and its junction roundabouts shall be measured along the centre line between the outer edges of its carriageway.

A footbridge shall be defined as the totality of the Structure.

Additions to the length of the road network shall be measured as a positive quantity. Deductions to the length of the road network shall be measured as a negative quantity.

Each Structure that is added to or deducted from the road network shall be separately measured.

The addition of Structures shall be measured as a positive quantity.

			The deduction of Structures shall be measured as a negative quantity.
Itemisation	3	Separate items shall be provided for changes in the extent of the Trunk Road Network impacting on monthly sum items in Series 6100 in accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group	Feature
		I	1 Addition/deduction for increase/decrease in the extent of the Unit.
		II	1 Trunk Road.
			2 Structure.
		III	1 Bridge with cumulative clear spans not exceeding 10 metres.
			2 Bridge with cumulative clear spans exceeding 10 metres but not exceeding 50 metres.
			3 Bridge with a cumulative clear spans exceeding 50 metres.
			4 Footbridge.
			5 Culvert.
			6 Service duct.
			7 Underpass.
			8 Retaining wall.
			9 Sign gantry/signal gantry, high mast lighting, mast.
Changes in the Extent of the Unit Impacting on Monthly Sum Items in Series 6100	4	The items for changes in the extent of the Unit impacting on monthly sum items in Series 6100 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for	
Item coverage	(a)	all costs or savings occasioned by the change.	

Series 7000: Lump Sum Quotations		
Units	1	The units of measurement shall be (i) Lump Sum Quotationsum.
Itemisation	2	Separate items shall be provided for Lump Sum Quotation in accordance with Chapter II paragraphs 3 and 4 and the following
<hr/>		
	Group	Feature
<hr/>		
	I	1 Lump Sum Quotation.
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Lump Sum Quotation	3	The items for Lump Sum Quotations shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for
Item coverage	(a)	all costs to undertake the Operations as a Lump Sum Quotation.

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